

Supporting Information 1

Comparative Structural Analysis of PtCo and PtNi Bimetallic Clusters: A Systematic Study Using MCDE Algorithm

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MCDE Algorithm

Parameter	Description
N	Total number of atoms.
N_{pt}	Number of Platinum (Pt) atoms.
T	Maximum number of iterations.
$S = 20$	Exchange interval between populations.
$\mathbf{G}$	Global best structure.
N_p	Population size for each sub-population.
$\mathbf{P}_e, \mathbf{P}_d, \mathbf{P}_b$	Explorer, Developer, and Balancer.
p_s	probability for atom swap operation.
c	Counter for stagnation detection.
$F = 0.5$	Scaling factor for differential vectors.
$K = 0.5$	Balancing factor for population.
$CR = 0.5$	Crossover probability.
$\mathbf{X}_{r1}, \mathbf{X}_{r2}, \mathbf{X}_{r3}$	Three distinct individuals.
$\mathbf{B}_P$	Best individual in population $\mathbf{P}$.
$\mathbf{W}_P$	Worst individual in population $\mathbf{P}$.
D	Total dimensions.

Algorithm 1 Population Evolution

Require: Population $\mathbf{P}$, strategy type s

Ensure: Evolved population $\mathbf{P}$

```

1: for each individual  $\mathbf{X}_i \in \mathbf{P}$  do
2:   Mutation:
3:   if  $s = \text{"explorer"}$  then
4:      $\mathbf{V}_i \leftarrow \mathbf{X}_{r1} + F \times (\mathbf{X}_{r2} - \mathbf{X}_{r3})$ 
5:   else if  $s = \text{"developer"}$  then
6:      $\mathbf{V}_i \leftarrow \mathbf{B}_P + F \times (\mathbf{X}_{r1} - \mathbf{X}_{r2})$ 
7:   else
8:      $\mathbf{V}_i \leftarrow \mathbf{X}_i + K \times (\mathbf{B}_P - \mathbf{X}_i) + F \times (\mathbf{X}_{r1} - \mathbf{X}_{r2}) + F \times (\mathbf{X}_{r3} - \mathbf{X}_i)$ 
9:   end if
10:
11:   Crossover:
12:    $j_{rand} \leftarrow \text{randint}(1, D)$  {Ensure at least one dimension changes}
13:   for  $j = 1$  to  $D$  do
14:     if  $(\text{rand}() < CR)$  OR  $(j = j_{rand})$  then
15:        $U_i^j \leftarrow V_i^j$  {Take from mutant vector}
16:     else
17:        $U_i^j \leftarrow X_i^j$  {Take from target vector}
18:     end if
19:   end for
20:
21:   Selection:
22:    $E(\mathbf{U}_i) \leftarrow \text{L-BFGS}(\mathbf{U}_i)$  {Local optimization is key}
23:   if  $E(\mathbf{U}_i) < E(\mathbf{X}_i)$  then
24:      $\mathbf{X}_i \leftarrow \mathbf{U}_i$ 
25:     if  $E(\mathbf{U}_i) < E(\mathbf{B}_P)$  then
26:        $\mathbf{B}_P \leftarrow \mathbf{U}_i$ 
27:     end if
28:   end if
29: end for
30:
31: return  $\mathbf{P}$ 

```

Algorithm 2 Atom Swap Operation

Require: Individual $\mathbf{X}$ **Ensure:** Updated individual $\mathbf{X}$

```
1: if ( $N_{pt} \neq 0$ ) AND ( $N_{pt} \neq N$ ) then
2:   Randomly select a Pt atom  $a$  (index 0 to  $N_{pt} - 1$ )
3:   Randomly select a Ni atom  $b$  (index  $N_{pt}$  to  $N - 1$ )
4:   Store  $\mathbf{x}_a$  in temporary variable
5:   Set  $\mathbf{x}_a \leftarrow \mathbf{x}_b$ 
6:   Set  $\mathbf{x}_b \leftarrow$  stored value
7:    $E_{new} \leftarrow \text{L-BFGS}(\mathbf{X})$  {Re-optimize after swap}
8:   if  $E_{new} \geq E(\mathbf{X})$  then
9:     Store  $\mathbf{x}_a$  in temporary variable
10:    Set  $\mathbf{x}_a \leftarrow \mathbf{x}_b$ 
11:    Set  $\mathbf{x}_b \leftarrow$  stored value {Revert positions}
12:   end if
13: end if
14:
15: return  $\mathbf{X}$ 
```

Algorithm 3 Exchange Best Individuals

Require: Three populations $\mathbf{P}_e, \mathbf{P}_d, \mathbf{P}_b$ **Ensure:** Updated populations $\mathbf{P}_e, \mathbf{P}_d, \mathbf{P}_b$

```
1: for  $i = 1$  to 3 do
2:    $\mathbf{P}_s \leftarrow$  population  $i$ 
3:    $\mathbf{P}_t \leftarrow$  population  $(i \bmod 3) + 1$ 
4:   if  $E(\mathbf{B}_{\mathbf{P}_s}) < E(\mathbf{W}_{\mathbf{P}_t})$  then
5:     Replace  $\mathbf{W}_{\mathbf{P}_t}$  in  $\mathbf{P}_t$  with  $\mathbf{B}_{\mathbf{P}_s}$ 
6:     Update  $\mathbf{W}_{\mathbf{P}_t}$  for  $\mathbf{P}_t$ 
7:   end if
8: end for
9:
10: return  $\mathbf{P}_e, \mathbf{P}_d, \mathbf{P}_b$ 
```

Algorithm 4 Main Framework of Improved DE

Require: Total atoms N , Pt atoms N_{pt} , max iterations $T = 200$, exchange interval S

Ensure: Global best structure $\mathbf{G}$

```
1: Initialize parameters:
2:  $N_p \leftarrow \lfloor (N + 5)/5 \rfloor \times 5$ 
3: Initialize three populations:  $\mathbf{P}_e$  (Explorer),  $\mathbf{P}_d$  (Developer),  $\mathbf{P}_b$  (Balancer)
4:  $p_s \leftarrow 0.5$ ,  $c \leftarrow 0$ 
5: Initialize populations:
6: for each population  $\mathbf{P} \in \{\mathbf{P}_e, \mathbf{P}_d, \mathbf{P}_b\}$  do
7:   for  $j = 1$  to  $N_p$  do
8:     if historical best structure exists then
9:        $\mathbf{X}_j \leftarrow$  load and modify historical structure
10:    else
11:       $\mathbf{X}_j \leftarrow$  generate random structure within radius  $r_0 \cdot N^{1/3}$ 
12:    end if
13:     $E(\mathbf{X}_j) \leftarrow$  L-BFGS( $\mathbf{X}_j$ ) {Local optimization}
14:  end for
15:   $\mathbf{B}_\mathbf{P} \leftarrow \arg \min_{\mathbf{X} \in \mathbf{P}} E(\mathbf{X})$ 
16: end for
17:  $\mathbf{G} \leftarrow \arg \min\{\mathbf{B}_{\mathbf{P}_e}, \mathbf{B}_{\mathbf{P}_d}, \mathbf{B}_{\mathbf{P}_b}\}$ 
18: Main Loop:
19: for  $t = 1$  to  $T$  do
20:    $E_{prev} \leftarrow E(\mathbf{G})$ 
21:   {Evolve populations in parallel}
22:    $\mathbf{P}_e \leftarrow \text{Evolve}(\mathbf{P}_e, \text{"explorer"})$ 
23:    $\mathbf{P}_d \leftarrow \text{Evolve}(\mathbf{P}_d, \text{"developer"})$ 
24:    $\mathbf{P}_b \leftarrow \text{Evolve}(\mathbf{P}_b, \text{"balancer"})$ 
25:   {Atom swap operation}
26:   for each population  $\mathbf{P} \in \{\mathbf{P}_e, \mathbf{P}_d, \mathbf{P}_b\}$  do
27:     for each individual  $\mathbf{X} \in \mathbf{P}$  do
28:       if  $\text{rand}() < p_s$  then
29:          $\mathbf{X} \leftarrow \text{Swap}(\mathbf{X})$ 
30:       end if
31:     end for
32:   end for
33:   Update  $\mathbf{B}_\mathbf{P}$  for each population and  $\mathbf{G}$ 
34:   {Inter-population information exchange}
35:   if  $t \bmod S = 0$  then
36:     Exchange( $\mathbf{P}_e, \mathbf{P}_d, \mathbf{P}_b$ )
37:   end if
38:   {Dynamically adjust probability}
39:   if  $E(\mathbf{G}) < E_{prev}$  then
40:      $c \leftarrow 0$ ,  $p_s \leftarrow 0.2$ 
41:   else
42:      $c \leftarrow c + 1$ ,  $p_s \leftarrow \min(0.8, 0.2 + 0.01 \times c)$ 
43:   end if
44: end for
45: return  $\mathbf{G}$ 
```

Coordinates for PtCo(N=38)

Coordinates for Pt0Co38				Coordinates for Pt1Co37			
Atom	X	Y	Z	Atom	X	Y	Z
Co	0.465983	-0.585008	-3.751090	Pt	0.733912	1.729496	2.606843
Co	-2.004209	-2.159267	2.439414	Co	1.384926	-1.749301	2.070596
Co	3.564117	-0.500030	1.295028	Co	1.598251	0.262313	0.661692
Co	-0.930654	-2.365243	-2.858244	Co	3.508809	-1.174248	1.037386
Co	-1.398987	0.937081	-0.319933	Co	-1.509403	1.044509	3.451502
Co	-2.936411	-1.825225	-1.635878	Co	-3.499053	1.165288	-0.981266
Co	2.936409	1.825224	1.635877	Co	-1.577334	-0.237180	-0.563741
Co	-0.007404	2.756761	-1.230031	Co	0.568875	0.315683	-1.544801
Co	-2.025882	3.244315	0.016656	Co	2.523619	-1.130375	-1.167656
Co	0.155962	-1.718901	3.413372	Co	-0.444068	0.367782	-3.743260
Co	1.580502	0.049721	2.571445	Co	-0.558945	-0.293378	1.647778
Co	-2.837772	-0.850982	0.579369	Co	0.343488	-1.658009	-0.156245
Co	-0.618205	-0.393982	1.549270	Co	0.120395	-3.636014	1.211959
Co	-2.180303	2.263926	-2.179671	Co	-0.687675	-1.626720	-2.394411
Co	-0.773499	-1.379959	-0.659579	Co	-2.522369	1.140911	1.241678
Co	-3.564118	0.500031	-1.295032	Co	1.236337	-3.024117	-1.944701
Co	-2.626158	0.144640	2.777126	Co	-2.256732	3.090519	-0.185753
Co	3.409705	-1.480416	-0.901302	Co	-1.375986	1.754164	-1.994945
Co	-1.580503	-0.049722	-2.571445	Co	-0.118418	3.641353	-1.163209
Co	-3.409704	1.480423	0.901294	Co	-1.833563	-2.252778	0.824075
Co	2.025890	-3.244308	-0.016654	Co	1.843406	2.265534	-0.753975
Co	0.773500	1.379960	0.659578	Co	-2.708699	-0.867290	2.598697
Co	2.837772	0.850985	-0.579373	Co	2.890891	2.178025	1.440065
Co	-0.465988	0.585005	3.751090	Co	2.250149	-3.087394	0.238414
Co	2.004208	2.159271	-2.439417	Co	2.661328	0.167792	2.854330
Co	1.398988	-0.937079	0.319932	Co	0.909085	3.643965	1.019632
Co	-2.160056	-3.148740	0.222735	Co	-0.894084	-3.572905	-0.970852
Co	-0.154300	-3.688760	-0.999633	Co	-2.822522	-2.146445	-1.379970
Co	2.626154	-0.144635	-2.777133	Co	2.701097	0.861498	-2.539766
Co	2.160060	3.148742	-0.222737	Co	3.733367	0.792186	-0.346066
Co	0.618205	0.393983	-1.549271	Co	1.462619	-1.042599	-3.338764
Co	1.264676	-1.955500	-1.920783	Co	0.795005	2.271440	-2.944134
Co	-1.264674	1.955502	1.920782	Co	-0.332404	1.690415	0.252111
Co	2.180304	-2.263924	2.179675	Co	-3.722714	-0.793275	0.396650
Co	0.007407	-2.756759	1.230032	Co	-0.794942	-2.282889	3.004696
Co	0.930653	2.365238	2.858248	Co	0.446984	-0.402620	3.866544
Co	-0.155964	1.718900	-3.413371	Co	-2.598788	-0.187275	-2.758314
Co	0.154309	3.688761	0.999637	Co	-1.276863	3.080859	2.018863

Coordinates for Pt2Co36				Coordinates for Pt3Co35			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.060789	3.010803	-0.521767	Pt	2.772782	-0.937834	-1.225176
Pt	0.069767	-3.250480	0.465666	Pt	0.513066	1.858406	2.514495
Co	0.344645	0.271713	-3.831935	Pt	-1.575672	1.705774	-2.231464
Co	-3.633173	-1.055883	0.354107	Co	0.576080	0.378412	-1.645826
Co	2.117223	-0.602846	3.174618	Co	0.499975	-1.598140	-0.203655
Co	-0.291162	0.656516	-1.528323	Co	-1.674309	0.991039	3.333344
Co	-0.608643	3.191602	1.871312	Co	-3.636530	0.847647	-1.125135
Co	-2.339645	2.915932	0.138957	Co	1.617379	-0.950180	-3.425434
Co	1.806202	-2.780501	2.189491	Co	-2.562578	-0.481290	-2.902460
Co	-3.277692	1.092511	1.405681	Co	0.398731	-3.560395	1.221242
Co	2.085966	0.573797	-2.157572	Co	-2.637979	0.962498	1.095042
Co	0.421716	-0.896189	1.472220	Co	1.522474	-2.964762	-1.957120
Co	3.408247	-1.332186	-1.461783	Co	-2.561698	2.949734	-0.319247
Co	-1.289482	-1.168706	-0.240301	Co	1.486517	-1.544955	2.049509
Co	-0.214088	-0.511382	3.775831	Co	-0.410391	3.694438	-1.290713
Co	1.420036	0.929030	0.184200	Co	-2.675491	-1.028051	2.497743
Co	2.805899	-1.000299	0.873596	Co	-0.496047	1.705099	0.128476
Co	3.763731	0.816206	-0.410209	Co	2.643395	2.498966	1.396875
Co	0.780898	1.311053	2.529219	Co	2.515179	-2.892226	0.298457
Co	-0.937302	1.021528	0.792124	Co	-1.642418	-2.353660	0.763534
Co	1.715944	-1.601685	-3.155397	Co	3.613364	-0.804331	1.109745
Co	-1.986667	0.363184	-3.230723	Co	-0.565710	-0.279421	1.559991
Co	2.467469	2.727303	-1.100705	Co	0.560293	3.765374	0.914825
Co	-2.675345	0.760627	-0.929700	Co	-1.550778	-0.351406	-0.678223
Co	-0.650347	-1.550721	-2.585323	Co	-0.571750	-3.631295	-0.983832
Co	3.124721	1.177205	1.884608	Co	-2.599708	-2.398418	-1.453121
Co	1.067855	-1.261205	-0.848227	Co	-0.494659	-1.689713	-2.452026
Co	-0.578435	-2.686937	2.804449	Co	2.692922	1.126381	-2.614541
Co	-1.955411	-0.813473	2.101472	Co	3.693528	1.199498	-0.341016
Co	0.739188	-3.431274	-1.927417	Co	-0.402336	0.277703	-3.892831
Co	-1.675643	2.540834	-2.245596	Co	0.672116	2.354923	-3.082190
Co	-2.336910	-2.966982	1.044611	Co	-1.591539	3.020633	1.885104
Co	-1.585391	1.362011	3.099294	Co	-3.649620	-1.099235	0.284410
Co	2.470199	-3.155607	-0.195066	Co	-0.655108	-2.256333	2.965285
Co	-1.683283	-3.336223	-1.302699	Co	1.644054	2.442964	-0.837142
Co	-2.994166	-1.416871	-1.940715	Co	1.567096	0.450828	0.605909
Co	1.813833	3.096553	1.246600	Co	0.392343	-0.265367	3.811593
Co	0.708998	2.447265	-2.860548	Co	2.563789	0.494436	2.846697

Coordinates for Pt4Co34				Coordinates for Pt5Co33			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-2.916779	-1.105514	-0.067121	Pt	2.620003	-1.413532	0.959342
Pt	0.985527	0.722530	-2.940353	Pt	0.564070	3.062620	-0.621778
Pt	0.163170	2.610415	1.811986	Pt	-2.256487	-0.237058	2.223727
Pt	1.979485	-2.203227	1.216210	Pt	-1.051769	-1.417626	-2.684973
Co	-1.714269	1.590386	3.084062	Pt	-2.703832	1.422323	-1.029307
Co	2.267997	-2.980797	-1.128051	Co	1.710943	-3.478148	-0.083201
Co	-3.144912	-0.135646	2.211201	Co	0.168271	-0.781395	1.506751
Co	0.066764	2.988547	-2.488169	Co	2.872490	2.320170	-1.181485
Co	-0.442621	-1.571499	0.546133	Co	0.005620	-3.479209	-1.776605
Co	0.394267	-3.858527	0.251585	Co	3.053161	-1.907913	-1.437302
Co	1.411157	-0.703104	-0.818791	Co	1.346757	-1.910238	-3.129615
Co	-0.051972	-2.468506	-1.711555	Co	0.945440	1.332345	2.483626
Co	-0.914795	-0.181638	-1.428433	Co	3.828060	0.240641	-0.447874
Co	-0.315255	3.865461	-0.280707	Co	-0.033839	3.447970	1.766226
Co	2.405177	2.464266	-1.875272	Co	1.505665	0.783183	0.157534
Co	-1.880040	-3.348642	-0.344534	Co	-0.252167	0.792053	-1.580751
Co	3.738975	-1.206089	-0.230630	Co	1.119638	2.317630	-2.933683
Co	2.023173	3.341192	0.332191	Co	-2.891782	-2.375221	1.113222
Co	0.001532	-2.956862	2.521264	Co	-3.366949	-0.820197	-1.950433
Co	2.874464	1.062201	0.073870	Co	-3.139088	1.949558	1.389302
Co	0.636716	1.063310	3.700271	Co	-0.363607	-0.234160	3.839374
Co	-2.188984	2.987689	1.098903	Co	3.254774	0.802439	1.888045
Co	-3.224733	0.355151	-2.055855	Co	-1.593220	-0.776810	-0.227828
Co	-2.272784	-2.446975	1.925159	Co	0.368678	0.235457	-3.892539
Co	-0.833329	-0.674696	2.803898	Co	-1.344680	1.914469	3.088659
Co	0.548329	1.583603	-0.535769	Co	-1.131919	-2.364479	2.858351
Co	3.344132	-0.299587	2.051263	Co	-3.936670	-0.261895	0.370916
Co	1.480411	-1.172623	3.423520	Co	-0.824959	1.353360	0.753130
Co	-1.777731	2.105207	-1.145494	Co	-1.974730	0.808531	-3.354983
Co	1.020504	0.193738	1.438792	Co	0.739496	-1.341165	-0.820746
Co	-1.412114	1.204314	-3.390456	Co	-1.210583	2.927268	-2.379283
Co	-3.619614	1.261654	0.226018	Co	-0.582966	-2.905500	0.532078
Co	-1.305451	0.715200	0.829147	Co	2.084966	0.215664	-2.159466
Co	2.500434	1.936353	2.328016	Co	-1.805235	3.510000	0.043645
Co	-0.544674	-1.094674	-3.674983	Co	1.133208	-2.911997	2.270823
Co	3.277284	0.152947	-2.161346	Co	-2.331894	-2.923891	-1.168062
Co	-2.357291	-1.943822	-2.340366	Co	2.299666	2.881513	1.152548
Co	1.806316	-1.621765	-3.058779	Co	1.902136	-0.779962	3.252636

Coordinates for Pt6Co32				Coordinates for Pt7Co31			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.034067	-1.274901	2.909501	Pt	-2.693159	-0.016653	-1.695966
Pt	-0.034061	1.274903	-2.909499	Pt	-0.682676	0.353556	3.079769
Pt	0.833673	2.214211	2.119909	Pt	-1.533387	2.751778	0.438847
Pt	-0.833675	-2.214212	-2.119906	Pt	-1.833023	-2.413340	0.965380
Pt	-2.088018	2.392570	-0.086582	Pt	1.842685	2.403525	-0.950582
Pt	2.088016	-2.392571	0.086583	Pt	0.702763	-0.354908	-3.081608
Co	-1.392533	0.087803	-1.057981	Pt	1.544281	-2.740359	-0.426212
Co	0.376509	1.668133	-0.376503	Co	2.541371	0.015715	1.600380
Co	3.761587	-0.665230	0.749951	Co	0.395027	-1.144980	1.261324
Co	3.348428	-1.112457	-1.644692	Co	-0.469817	2.819332	2.714258
Co	-1.857423	-0.363583	-3.453400	Co	3.626966	-1.426519	-0.041366
Co	2.741772	1.041150	-0.667507	Co	-2.849124	-0.810173	2.600734
Co	-3.348434	1.112452	1.644687	Co	-0.757692	-2.143169	3.220135
Co	-2.741774	-1.041150	0.667502	Co	0.725162	3.789354	0.807139
Co	-2.362179	-0.592039	3.037134	Co	-2.417262	2.468709	-1.892994
Co	2.450538	-1.814724	2.491945	Co	-0.697783	-3.799034	-0.786212
Co	-2.450531	1.814729	-2.491947	Co	2.702680	2.441190	1.388404
Co	-3.178624	-1.475800	-1.694952	Co	-1.627280	0.162187	0.664956
Co	-1.615678	2.718443	2.346891	Co	0.296076	-3.607179	1.561139
Co	0.594572	-3.447937	1.807308	Co	-3.657321	1.462090	0.086074
Co	0.184251	-3.892090	-0.570830	Co	0.538161	1.322364	1.009802
Co	2.168233	3.221987	0.268437	Co	3.765666	0.964377	-0.285101
Co	3.178621	1.475804	1.694944	Co	0.792061	2.145576	-3.210425
Co	2.362182	0.592038	-3.037138	Co	-1.503709	-1.529929	-3.304433
Co	0.977071	-0.537532	-1.350037	Co	1.606356	-0.161680	-0.671897
Co	0.612253	-0.984281	-3.763574	Co	1.386445	-0.966959	3.512024
Co	-0.376509	-1.668132	0.376505	Co	-3.799368	-0.986518	0.335691
Co	1.764956	2.785439	-2.069013	Co	0.503795	-2.823654	-2.703862
Co	-2.168244	-3.221984	-0.268438	Co	2.873589	0.804542	-2.575219
Co	-0.612251	0.984278	3.763579	Co	1.528879	1.488362	3.261725
Co	1.857430	0.363585	3.453399	Co	2.421538	-2.405026	1.882432
Co	-0.594562	3.447938	-1.807298	Co	-2.705843	-2.505760	-1.385892
Co	-3.761588	0.665233	-0.749960	Co	-0.555128	-1.327355	-1.022972
Co	-0.977072	0.537530	1.350037	Co	2.732390	-1.629490	-2.327089
Co	1.392534	-0.087802	1.057980	Co	-0.267527	3.617671	-1.542268
Co	-0.184262	3.892091	0.570845	Co	-2.707145	1.637301	2.351234
Co	1.615671	-2.718453	-2.346886	Co	-1.357182	0.995931	-3.561923
Co	-1.764949	-2.785438	2.069009	Co	-0.411464	1.149129	-1.275426

Coordinates for Pt8Co30				Coordinates for Pt9Co29			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.666747	0.440095	-3.075955	Pt	-2.157204	2.137755	1.118783
Pt	-2.707287	-0.222501	1.649485	Pt	-2.987070	-1.133308	-0.509692
Pt	0.666747	-0.440095	3.075955	Pt	-0.442098	-0.452420	-3.174268
Pt	1.675706	-2.677788	0.348128	Pt	-0.362082	-2.775424	1.529768
Pt	-1.675706	2.677788	-0.348128	Pt	0.452636	0.435939	3.128525
Pt	1.698329	2.460195	1.078339	Pt	2.136442	-2.106967	-1.086181
Pt	-1.698329	-2.460195	-1.078339	Pt	0.387765	2.818638	-1.545792
Pt	2.707287	0.222501	-1.649485	Pt	-1.271363	0.824364	-1.005398
Co	2.766513	-1.585179	2.323626	Pt	2.951164	1.104401	0.512575
Co	0.604477	-2.901706	2.603912	Co	2.016416	2.300642	2.512029
Co	3.734071	-1.270999	0.082980	Co	3.663556	-1.288833	0.724497
Co	-1.462699	0.783966	3.579318	Co	-1.287345	1.951423	-3.261135
Co	-3.744799	-1.165261	-0.429217	Co	-3.612718	0.142666	1.557054
Co	2.777243	0.851083	2.669861	Co	3.639293	-0.150248	-1.550164
Co	-0.484763	1.075120	1.310608	Co	-2.110338	3.194318	-1.201115
Co	-2.595250	-2.695354	1.251135	Co	1.231744	-0.794890	0.971575
Co	-2.573423	2.262356	1.955728	Co	-2.906762	0.055090	-2.763964
Co	-1.621083	0.104546	-0.685360	Co	0.445938	-3.889692	-0.569784
Co	-0.484416	3.534397	1.684918	Co	2.030764	-0.883210	-3.273000
Co	3.744799	1.165261	0.429216	Co	-0.390506	2.773424	2.787638
Co	1.621083	-0.104546	0.685360	Co	-0.384368	-1.565691	-0.768960
Co	1.462699	-0.783967	-3.579318	Co	1.190935	1.427832	-3.472335
Co	-2.766513	1.585179	-2.323626	Co	2.803626	2.163172	-1.756385
Co	-0.495632	-1.393469	0.959772	Co	-2.784711	-2.171545	1.768790
Co	0.484416	-3.534397	-1.684918	Co	0.407276	1.554718	0.784515
Co	-0.626308	-2.056004	-3.308505	Co	-1.994083	-2.301817	-2.494520
Co	2.573423	-2.262356	-1.955728	Co	-1.202427	-0.330248	1.278709
Co	1.473803	1.737491	-3.220965	Co	1.303210	-1.920324	3.195773
Co	0.495632	1.393469	-0.959772	Co	-3.729753	1.297982	-0.703951
Co	-2.777243	-0.851083	-2.669861	Co	2.868215	-0.087698	2.715301
Co	-1.473803	-1.737491	3.220965	Co	1.225333	0.319279	-1.263147
Co	0.484763	-1.075120	-1.310608	Co	2.098553	-3.121463	1.204963
Co	-0.516975	-3.859570	0.634085	Co	-1.176944	-1.438794	3.492425
Co	0.626308	2.056004	3.308505	Co	-0.427700	3.872316	0.579241
Co	2.595250	2.695354	-1.251135	Co	1.979654	3.407545	0.306083
Co	-0.604476	2.901706	-2.603912	Co	-1.960734	-3.415925	-0.293691
Co	0.516975	3.859570	-0.634084	Co	0.409418	-2.781810	-2.775240
Co	-3.734071	1.270999	-0.082980	Co	-2.011855	0.874826	3.285403

Coordinates for Pt10Co28				Coordinates for Pt11Co27			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.956455	0.220501	-3.095016	Pt	-0.781632	-0.074451	-3.190517
Pt	0.443814	1.343169	-1.139498	Pt	-2.744364	-0.107742	1.803538
Pt	-2.609404	-0.024626	1.936321	Pt	-0.519977	1.292010	1.219141
Pt	0.954018	-0.219160	3.097537	Pt	0.788482	0.061386	3.169453
Pt	-0.446245	-1.341822	1.142019	Pt	1.893454	-2.566687	0.705583
Pt	1.689836	-2.740705	0.417135	Pt	0.565496	-1.289656	-1.201231
Pt	-1.692272	2.742047	-0.414606	Pt	-1.901204	2.588347	-0.694093
Pt	1.871160	2.547519	0.746610	Pt	1.628885	2.748679	0.679955
Pt	-1.873587	-2.546172	-0.744091	Pt	-1.624783	-2.770529	-0.692881
Pt	2.606979	0.025976	-1.933800	Pt	-1.735425	-0.089668	-0.682643
Co	2.932224	-1.476692	2.196339	Pt	2.733866	0.120619	-1.783910
Co	0.821601	-2.747705	2.812629	Co	2.912025	-1.079242	2.457127
Co	3.711063	-1.358753	-0.150344	Co	0.843296	-2.448192	2.989541
Co	-1.124391	1.086135	3.629777	Co	-1.448086	1.228585	3.557130
Co	-3.792429	-1.109573	0.004952	Co	1.685873	0.087108	0.663152
Co	3.025015	0.992229	2.348757	Co	-0.382885	-1.289624	1.203857
Co	-1.721131	0.094566	-0.559209	Co	-3.755181	-1.466507	-0.119851
Co	-2.584540	-2.561759	1.702655	Co	2.788923	1.390469	2.442445
Co	-2.358159	2.475507	1.994272	Co	-2.405694	-2.596655	1.690820
Co	-0.266623	3.673704	1.431037	Co	0.424405	1.291769	-1.187524
Co	-0.356362	1.217717	1.294981	Co	-2.718825	2.432569	1.708029
Co	3.790002	1.110927	-0.002438	Co	-0.642406	3.804831	1.170512
Co	0.353935	-1.216370	-1.292459	Co	1.473354	-1.227277	-3.547188
Co	1.230698	1.450939	-3.536175	Co	3.693795	1.420559	0.141334
Co	-2.934662	1.478023	-2.193805	Co	1.306559	1.298685	-3.480591
Co	0.264194	-3.672363	-1.428509	Co	-2.946219	1.120245	-2.516198
Co	1.718701	-0.093222	0.561730	Co	0.667678	-3.803523	-1.160583
Co	-0.966707	-2.292786	-3.074438	Co	-0.601137	-2.604115	-3.013963
Co	2.355728	-2.474157	-1.991742	Co	2.753778	-2.430241	-1.693723
Co	2.582104	2.563108	-1.700138	Co	2.427421	2.617193	-1.702983
Co	-3.027446	-0.990899	-2.346246	Co	-2.819877	-1.441139	-2.507585
Co	-1.233138	-1.449598	3.538694	Co	-1.298712	-1.298275	3.483680
Co	-0.529798	-3.859859	0.976584	Co	-0.270435	-3.743932	1.190833
Co	0.964289	2.294127	3.076960	Co	0.636524	2.605426	3.027321
Co	0.527355	3.861203	-0.974054	Co	0.278288	3.744333	-1.187755
Co	-0.824044	2.749043	-2.810100	Co	-0.833915	2.429256	-2.965139
Co	-3.713501	1.360103	0.152880	Co	-3.886051	1.094645	-0.130242
Co	1.121964	-1.084781	-3.627255	Co	3.814707	-1.049261	0.155150

Coordinates for Pt14Co24				Coordinates for Pt15Co23			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	3.209944	0.145953	2.786054	Pt	3.170490	0.262701	2.825773
Pt	-4.019616	-0.044515	1.387894	Pt	-4.037022	-0.042917	1.344119
Pt	-2.541912	2.133131	0.828482	Pt	-2.571049	2.131024	0.742587
Pt	0.449976	2.152981	-2.619413	Pt	0.460143	2.084173	-2.668173
Pt	4.019857	0.044991	-1.388048	Pt	4.044246	0.069863	-1.330688
Pt	-3.209697	-0.145465	-2.786208	Pt	-3.184585	-0.236608	-2.816733
Pt	0.033233	-1.408014	0.020549	Pt	0.048331	-1.414173	0.056562
Pt	-1.938356	-2.250689	-1.695129	Pt	-1.920080	-2.322864	-1.659836
Pt	-0.807707	0.012967	4.175326	Pt	-0.861112	0.116577	4.164838
Pt	-0.032994	1.408495	-0.020696	Pt	1.888543	2.320116	1.659342
Pt	1.938593	2.251174	1.694977	Pt	-0.047706	1.405425	-0.057811
Pt	0.807963	-0.012484	-4.175474	Pt	0.862519	-0.126567	-4.169581
Pt	2.542148	-2.132655	-0.828626	Pt	2.600319	-2.131213	-0.730557
Pt	-0.449735	-2.152499	2.619267	Pt	-0.460779	-2.084556	2.671425
Co	0.540377	-2.094980	-2.508183	Pt	0.612899	-2.285166	-2.510143
Co	-1.444405	1.189218	-4.072759	Co	-1.404982	1.067388	-4.118982
Co	-2.236444	-0.058680	-0.432615	Co	-2.233023	-0.092482	-0.457656
Co	-2.000561	1.999135	-1.724636	Co	-1.997797	1.933612	-1.799210
Co	-4.187568	-1.392263	-0.781953	Co	-4.178373	-1.440750	-0.791756
Co	-2.394834	-2.114452	0.874402	Co	-2.390215	-2.111165	0.904840
Co	0.743209	0.049255	2.153571	Co	0.714849	0.116129	2.161278
Co	2.795752	1.300925	-3.252735	Co	2.821758	1.246575	-3.250085
Co	-1.493355	-0.009668	1.721032	Co	-1.515050	0.021576	1.702875
Co	2.000801	-1.998655	1.724490	Co	2.003641	-1.924858	1.808100
Co	2.395071	2.114931	-0.874550	Co	2.380666	2.119245	-0.899132
Co	-0.540142	2.095460	2.508037	Co	-0.594480	2.157422	2.446843
Co	-2.833444	1.263565	3.234437	Co	-2.885276	1.322992	3.167716
Co	4.187803	1.392750	0.781792	Co	4.160221	1.471821	0.804294
Co	4.242453	-1.170172	0.848379	Co	4.254534	-1.083201	0.941822
Co	1.444660	-1.188742	4.072604	Co	1.404563	-1.060843	4.123197
Co	1.493601	0.010145	-1.721183	Co	1.519985	-0.026329	-1.703410
Co	-4.242212	1.170660	-0.848533	Co	-4.245391	1.115427	-0.923645
Co	1.356430	1.373964	4.044726	Co	1.286884	1.499907	4.025387
Co	2.236682	0.059160	0.432464	Co	2.232288	0.096842	0.460287
Co	2.833687	-1.263098	-3.234584	Co	2.919062	-1.317093	-3.171756
Co	-1.356179	-1.373471	-4.044877	Co	-1.316711	-1.496661	-4.042516
Co	-2.795506	-1.300433	3.252593	Co	-2.823535	-1.240126	3.254022
Co	-0.742964	-0.048772	-2.153716	Co	-0.718773	-0.121242	-2.163633

Coordinates for Pt16Co22				Coordinates for Pt17Co21			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	2.082751	-0.942555	-2.528130	Pt	-0.629035	0.808297	1.097985
Pt	0.996696	1.498546	1.086920	Pt	-1.116197	-0.821257	-3.222820
Pt	0.308435	0.375391	-4.012796	Pt	-0.663722	3.274677	-0.060693
Pt	-2.972889	-0.836508	-1.208226	Pt	-2.931447	1.534353	0.086829
Pt	-2.723026	-0.995210	1.628121	Pt	-2.732956	-0.809320	1.697797
Pt	0.875590	-3.050619	-1.489642	Pt	1.723105	-0.375161	1.148581
Pt	-1.369744	3.084082	1.385389	Pt	0.335092	3.148013	-2.536287
Pt	-1.310100	0.721450	0.077740	Pt	-2.757282	-2.948016	0.118258
Pt	0.815488	0.329353	3.860199	Pt	1.057864	0.672997	-3.178253
Pt	-1.247986	-3.124659	2.240029	Pt	2.885987	-0.304941	-1.326291
Pt	3.057958	0.716057	-0.526776	Pt	1.670447	-2.695194	-0.290106
Pt	2.446649	-0.658633	1.929115	Pt	-0.752529	-2.893859	-1.630326
Pt	-1.747147	-3.049455	-2.141828	Pt	0.712997	1.095891	3.433251
Pt	-1.686670	1.335322	-2.535364	Pt	1.439825	2.697288	1.574204
Pt	1.170928	-2.993045	1.135065	Pt	3.509346	1.881822	0.174764
Pt	2.072606	3.156317	-1.190165	Pt	-3.263775	0.615455	-2.427665
Co	0.713312	1.104346	-1.535217	Pt	0.983662	-3.060588	2.309685
Co	0.402945	2.788252	-3.200960	Co	1.185350	1.528438	-0.654294
Co	2.535388	1.479531	-3.049890	Co	2.067010	-1.082852	3.516332
Co	1.046638	-0.775183	-0.173379	Co	-2.340205	3.037803	-2.003970
Co	-0.987709	-1.957474	0.017496	Co	3.263770	-2.353244	1.678381
Co	-0.797963	-4.317052	-0.019927	Co	-0.433058	-1.068488	3.035597
Co	-1.357023	-1.169522	3.869586	Co	1.880548	3.839876	-0.635657
Co	0.440489	2.762782	3.165078	Co	-0.424947	-4.178489	0.509341
Co	-2.060872	-0.939710	-3.682631	Co	-3.163927	-2.025464	-2.268966
Co	-3.368625	1.432184	1.376648	Co	0.397849	-0.651140	-1.069378
Co	3.060741	-1.944906	-0.326797	Co	-4.243023	-0.710473	-0.382139
Co	-2.856968	2.582783	-0.678884	Co	-1.867067	0.902578	3.323777
Co	0.986707	3.991092	0.970709	Co	4.262556	-0.383556	0.823405
Co	-0.495756	-0.851181	-1.958892	Co	3.165217	1.063159	2.603451
Co	-0.130452	-0.793089	1.854546	Co	2.831322	2.204462	-2.267646
Co	-1.379243	1.021444	2.759422	Co	1.342147	-1.891298	-2.811114
Co	0.141447	-2.204522	-3.793954	Co	-1.301292	1.648542	-3.863371
Co	-0.463069	3.081706	-0.921224	Co	-1.936687	-0.712542	-0.724545
Co	0.903144	-2.191025	3.507547	Co	-0.502336	-1.792691	0.771175
Co	2.709775	1.651746	2.987267	Co	-0.926490	2.938065	2.449991
Co	-3.017828	-3.091699	0.161886	Co	-0.956277	1.217333	-1.555421
Co	3.212280	2.781742	0.968514	Co	-1.653592	-3.101934	2.407670

Coordinates for Pt18Co20				Coordinates for Pt19Co19			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.593270	2.820012	2.768067	Pt	1.960891	2.188657	1.784699
Pt	-0.301624	-2.081981	-3.453608	Pt	3.190213	0.016431	2.841997
Pt	-1.057888	-3.004741	-1.065734	Pt	-4.063058	-0.059295	1.331967
Pt	2.726669	1.969202	0.132788	Pt	-2.565068	2.158706	0.860023
Pt	-0.600524	-1.132203	0.876917	Pt	0.534511	2.226552	-2.564642
Pt	-2.980307	-0.798171	2.135234	Pt	4.056367	0.053829	-1.329850
Pt	-1.699345	1.217848	0.430895	Pt	-3.181201	0.007928	-2.856345
Pt	2.907567	0.246280	-1.853060	Pt	-0.019543	1.419446	0.018763
Pt	-3.424496	0.592148	-1.995057	Pt	-0.871910	-0.053442	4.185158
Pt	-1.147391	2.084339	-2.101527	Pt	-1.966000	-2.190250	-1.814668
Pt	0.213054	3.154849	0.187190	Pt	0.887776	0.077597	-4.178603
Pt	1.217370	-3.004704	0.672178	Pt	-2.513821	-2.229837	0.804975
Pt	3.278119	-2.257945	-0.902020	Pt	0.016892	-1.428548	-0.018000
Pt	1.279031	-1.165858	2.865783	Pt	2.567858	-2.157381	-0.860948
Pt	-0.982057	0.282521	3.324649	Pt	-0.520897	-2.228650	2.591726
Pt	0.696893	0.371999	-3.282010	Pt	0.575460	-2.152805	-2.646958
Pt	3.174692	0.653487	2.394792	Pt	2.020052	-2.191184	1.757878
Pt	-3.161919	-1.432793	-0.342643	Pt	-0.568583	2.161762	2.635576
Co	-2.943660	1.769079	2.531285	Pt	-2.007725	2.200005	-1.752684
Co	0.582325	0.835368	-0.746461	Co	-4.226628	-1.313397	-0.909327
Co	-2.748624	-1.868336	-2.793627	Co	0.715429	-0.017348	2.177225
Co	1.902600	3.012513	2.264224	Co	2.872839	1.354307	-3.182540
Co	4.345588	-0.121887	0.227443	Co	-2.243899	-0.016790	-0.471416
Co	-1.737567	0.148105	-3.859833	Co	1.373803	-1.305691	4.101905
Co	-1.196788	-0.454306	-1.595325	Co	-1.352637	1.332559	-4.096802
Co	1.476222	2.541937	-2.076009	Co	2.442418	2.104902	-0.782680
Co	-2.139640	-3.139380	1.224524	Co	-2.902687	1.214051	3.245037
Co	0.925561	-1.417974	-1.350832	Co	4.206506	1.318883	0.884093
Co	-2.142371	3.665282	1.034695	Co	4.260741	-1.241685	0.873295
Co	-4.167640	0.805929	0.472107	Co	-1.529056	-0.035787	1.708288
Co	0.700968	1.039013	1.597361	Co	-4.254331	1.249977	-0.876415
Co	2.025306	-0.552600	0.499323	Co	1.528410	0.031351	-1.703586
Co	2.256163	-1.766033	-3.287707	Co	1.342933	1.260941	4.122553
Co	1.252946	1.280443	3.938432	Co	2.909720	-1.205799	-3.246230
Co	1.292006	-3.656990	-1.890061	Co	2.240555	0.012432	0.467890
Co	-1.000768	-2.243195	3.140540	Co	-1.328784	-1.233889	-4.138822
Co	-3.265508	2.781488	-0.854751	Co	-2.874097	-1.349345	3.214809
Co	3.426740	-1.977202	1.701292	Co	-0.712904	0.020602	-2.178052

Coordinates for Pt20Co18				Coordinates for Pt21Co17			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	3.236275	0.046952	2.794134	Pt	0.020971	1.443686	-0.000669
Pt	-4.026424	-0.085482	1.331700	Pt	3.274553	-0.054825	2.738605
Pt	-2.548200	2.139281	0.827603	Pt	-4.033789	0.066415	1.459992
Pt	0.512725	2.209986	-2.647258	Pt	0.747470	0.042908	-4.224995
Pt	4.080182	0.078238	-1.399650	Pt	4.020281	-0.030283	-1.473058
Pt	-3.182524	-0.054227	-2.862088	Pt	-3.283024	0.091144	-2.780181
Pt	-1.937487	-2.229329	-1.809623	Pt	-0.020429	-1.410175	-0.024642
Pt	-0.817022	-0.034910	4.159809	Pt	-2.087326	-2.140773	-1.757843
Pt	1.991243	2.222061	1.741679	Pt	-0.744305	-0.006218	4.200172
Pt	-0.000196	1.423591	-0.028781	Pt	0.434927	-2.160888	-2.665205
Pt	0.870776	0.027640	-4.227768	Pt	-0.432841	2.196014	2.637254
Pt	2.601961	-2.146536	-0.895565	Pt	2.013773	-2.221861	1.688589
Pt	-0.458971	-2.217255	2.579302	Pt	2.546142	2.181729	-0.906626
Pt	0.595973	-2.178160	-2.663236	Pt	2.080094	2.166389	1.725500
Pt	-0.542210	2.170895	2.595275	Pt	2.479957	-2.206518	-0.944330
Pt	2.518712	2.241611	-0.879585	Pt	-0.497880	-2.191604	2.603073
Pt	2.074487	-2.166090	1.725701	Pt	0.498967	2.226694	-2.625362
Pt	0.053952	-1.430860	-0.039175	Pt	-2.012421	2.258023	-1.713254
Pt	-2.020729	2.158820	-1.793662	Pt	-2.555292	-2.156190	0.885154
Pt	-2.464965	-2.248866	0.811638	Pt	-4.403063	-1.243868	-0.799655
Co	0.759134	0.002342	2.139693	Pt	-2.478443	2.242679	0.918742
Co	2.868556	1.344346	-3.282881	Co	-2.766610	1.316562	3.321511
Co	-1.489083	-0.038652	1.686986	Co	-1.456233	1.359721	-4.079199
Co	4.301553	-1.207887	0.817221	Co	-1.494574	-1.208161	-4.104656
Co	-2.221341	-0.044632	-0.486682	Co	-0.786319	0.045215	-2.170214
Co	-1.381804	1.266827	-4.138743	Co	2.771229	-1.277282	-3.343389
Co	-2.863427	1.211928	3.224260	Co	1.461757	-1.320399	4.052151
Co	4.252922	1.355647	0.826557	Co	4.289117	1.228777	0.753800
Co	-4.199171	-1.362908	-0.894501	Co	2.258272	-0.019808	0.386940
Co	1.435556	-1.274102	4.070790	Co	4.250232	-1.334956	0.731978
Co	1.542838	0.031389	-1.754944	Co	-2.261940	0.053751	-0.412984
Co	-4.247797	1.200624	-0.885180	Co	-4.266013	1.363340	-0.760183
Co	1.386924	1.289430	4.080121	Co	1.499882	1.243216	4.073091
Co	2.275096	0.037368	0.418727	Co	-1.479353	0.022391	1.743850
Co	2.917194	-1.219174	-3.292216	Co	2.809095	1.286314	-3.320988
Co	-1.333174	-1.296709	-4.148069	Co	0.781504	-0.012460	2.142274
Co	-2.814804	-1.351603	3.214930	Co	-2.806222	-1.251380	3.303212
Co	-0.705377	-0.009618	-2.207649	Co	1.473958	0.010336	-1.768530

Coordinates for Pt22Co16				Coordinates for Pt23Co15			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	3.207359	0.084830	2.834647	Pt	3.676002	1.853722	-1.304977
Pt	-4.062716	-0.182528	1.378670	Pt	4.610010	0.199772	0.524309
Pt	0.842719	0.112107	-4.206139	Pt	-1.503718	-3.112350	0.139196
Pt	0.439241	2.263191	-2.575655	Pt	2.808712	-1.668597	1.112116
Pt	-0.056282	1.427514	0.028084	Pt	-1.991773	-3.104613	2.755058
Pt	4.069445	0.191922	-1.357399	Pt	3.093114	-0.811505	-1.414071
Pt	-2.617280	2.080587	0.893966	Pt	1.216967	2.267492	2.262600
Pt	-0.840888	-0.101568	4.196678	Pt	-0.508697	1.286197	0.316657
Pt	-0.614245	2.129356	2.660693	Pt	-3.221820	-0.457254	-2.855529
Pt	2.093907	-2.138112	1.736746	Pt	-2.789117	1.685407	-1.222126
Pt	2.443611	2.313623	-0.808768	Pt	-3.072124	0.832523	1.291637
Pt	2.996173	-1.152302	-3.356585	Pt	-1.068207	1.123695	3.034759
Pt	0.620374	-2.131136	-2.665421	Pt	1.500215	3.121117	-0.253350
Pt	-0.436526	-2.254627	2.588107	Pt	0.462349	1.386776	-4.100397
Pt	-1.924228	-2.248308	-1.809290	Pt	-1.218826	-2.253801	-2.391270
Pt	-3.215381	-0.074758	-2.840792	Pt	0.515864	-1.267883	-0.434557
Pt	-2.089251	2.146760	-1.724946	Pt	-0.501955	2.830204	-1.994951
Pt	-4.306557	-1.488575	-0.899577	Pt	3.219749	0.478704	2.747726
Pt	0.058909	-1.423236	-0.019705	Pt	1.077639	-1.104355	-3.167244
Pt	-2.451302	-2.315239	0.821042	Pt	-1.174187	-0.640670	-4.507118
Pt	2.630924	-2.081221	-0.888874	Pt	0.508352	-2.819993	1.889406
Pt	1.916678	2.245893	1.809170	Pt	-0.448159	-1.357184	3.987113
Co	2.251256	0.083946	0.455881	Pt	-3.676069	-1.826213	1.179284
Co	0.732144	-0.004315	2.175479	Co	-4.481893	-0.180017	-0.628117
Co	2.825041	1.450451	-3.236368	Co	2.078668	-1.665755	3.601119
Co	-1.332970	-1.262999	-4.134715	Co	3.579030	2.504558	1.190221
Co	-2.911523	1.116731	3.281070	Co	-0.850194	0.289124	-2.170965
Co	4.302661	-1.121875	0.847146	Co	-2.872726	-0.724735	3.370264
Co	1.436357	-1.290930	4.092473	Co	-3.563769	-2.485603	-1.307009
Co	-4.313203	1.121753	-0.834709	Co	-1.271637	-0.980958	1.572440
Co	-1.517595	-0.089597	1.723909	Co	-2.127363	-0.706522	-0.541673
Co	-0.732180	0.006968	-2.175236	Co	2.131368	0.722344	0.422567
Co	1.332715	1.270597	4.134980	Co	1.281511	0.999721	-1.693527
Co	-1.434205	1.307191	-4.083855	Co	0.859344	-0.272550	2.056337
Co	4.196801	1.444038	0.889473	Co	-2.073708	1.683219	-3.726863
Co	-2.809160	-1.449346	3.239919	Co	1.152209	0.638622	4.272753
Co	-2.247918	-0.080113	-0.451667	Co	2.876216	0.737788	-3.483068
Co	1.517183	0.093260	-1.718434	Co	1.948567	3.038628	-2.800959

Coordinates for Pt24Co14				Coordinates for Pt25Co13			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	3.297732	-0.078565	2.754499	Pt	3.358578	0.109433	2.798752
Pt	-4.026268	0.153485	1.486923	Pt	-4.005263	0.057748	1.688825
Pt	0.743885	-0.060055	-4.242781	Pt	-0.008605	-1.419829	0.162786
Pt	0.535708	2.166347	-2.658575	Pt	0.629393	-0.148820	-4.149414
Pt	4.035056	-0.145314	-1.463750	Pt	0.383551	2.111663	-2.620081
Pt	-3.306122	0.090064	-2.760360	Pt	4.002214	-0.046576	-1.463633
Pt	-2.132309	-2.145427	-1.697049	Pt	-3.384541	-0.094927	-2.570807
Pt	-0.740546	0.071113	4.232614	Pt	-2.109860	-2.259977	-1.479046
Pt	-0.384130	2.238034	2.612840	Pt	-0.657658	0.159231	4.354513
Pt	1.985360	-2.251323	1.749255	Pt	-0.413586	2.293484	2.672216
Pt	2.816258	-1.461744	-3.394069	Pt	2.090852	-2.132662	1.865993
Pt	0.389592	-2.238903	-2.620135	Pt	2.765452	-1.459596	-3.319346
Pt	1.487246	-1.338930	4.198816	Pt	0.391081	-2.292646	-2.458771
Pt	-0.531100	-2.158054	2.670346	Pt	4.390249	1.377834	0.725703
Pt	0.049504	1.427047	-0.009276	Pt	-0.013550	1.428899	0.060577
Pt	-1.483443	1.358373	-4.190360	Pt	-0.405244	-2.101524	2.842971
Pt	-1.980730	2.259623	-1.737485	Pt	-2.110549	2.144968	-1.637982
Pt	-4.428665	-1.193210	-0.742220	Pt	1.612154	-1.177995	4.305499
Pt	-2.589846	-2.105753	0.945369	Pt	-2.505449	-2.165184	1.170571
Pt	2.123397	2.145088	1.695020	Pt	-1.642574	1.194980	-4.078265
Pt	-2.432303	2.289506	0.902560	Pt	-2.500212	2.230237	1.010637
Pt	-0.046747	-1.422846	0.016364	Pt	-4.414624	-1.360666	-0.493640
Pt	2.444422	-2.292346	-0.897310	Pt	2.488096	-2.229088	-0.788911
Pt	2.583833	2.103575	-0.933483	Pt	2.483626	2.175314	-0.947797
Co	2.263941	-0.073664	0.398250	Pt	2.082512	2.272054	1.700962
Co	-2.734491	1.416651	3.319411	Co	-2.283524	-0.009382	-0.232224
Co	4.315319	1.155332	0.738992	Co	-0.852283	-0.076398	-2.029916
Co	-1.539868	-1.255475	-4.079818	Co	-1.605704	-1.415787	-3.897283
Co	4.234112	-1.416715	0.764778	Co	4.302524	-1.236713	0.807443
Co	-4.245694	1.414709	-0.750745	Co	2.704439	1.157169	-3.342348
Co	-2.260854	0.076653	-0.394290	Co	-1.442437	0.063234	1.906948
Co	-0.790180	0.007037	-2.159511	Co	-4.321264	1.250966	-0.574257
Co	-1.472177	0.064816	1.765772	Co	1.573035	1.429622	4.119359
Co	2.841700	1.152013	-3.344939	Co	-2.715583	-1.160314	3.552353
Co	1.539614	1.269095	4.077796	Co	1.422949	-0.055291	-1.686894
Co	0.790184	-0.003393	2.159160	Co	2.265756	0.018107	0.452983
Co	-2.823969	-1.155114	3.348224	Co	0.831697	0.085035	2.248429
Co	1.472577	-0.061729	-1.760832	Co	-2.716545	1.412006	3.455637

Coordinates for Pt26Co12				Coordinates for Pt27Co11			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-2.152136	0.902318	2.572858	Pt	2.269965	0.204631	-2.618260
Pt	2.010509	0.412709	3.805643	Pt	0.137935	0.788711	-4.237447
Pt	0.923280	-3.334607	-2.561888	Pt	-2.444458	-1.736262	-1.768938
Pt	-3.396258	0.648253	0.212707	Pt	-1.410555	0.189387	-0.009467
Pt	-0.336212	-0.922358	3.336632	Pt	-0.765453	4.519032	0.810265
Pt	1.626850	2.957248	3.217584	Pt	-2.527934	-2.225505	0.880815
Pt	3.414248	-0.640296	-0.195325	Pt	0.408357	3.251883	2.805971
Pt	-1.608859	-2.949283	-3.200208	Pt	-1.489718	-1.284982	-4.217226
Pt	1.032408	3.260108	0.643284	Pt	1.934609	-2.304433	-1.727535
Pt	2.170128	-0.894352	-2.555475	Pt	0.767017	-4.525401	-0.811386
Pt	0.232094	-2.997595	1.738787	Pt	-1.729128	-2.688120	3.382252
Pt	-1.953975	2.226004	-3.575394	Pt	-1.846771	2.798104	-0.904860
Pt	2.924790	-2.925886	1.235066	Pt	-2.265089	-0.197348	2.623047
Pt	-3.244577	3.023651	1.398701	Pt	2.439810	1.736965	1.762861
Pt	2.844844	1.438932	1.405592	Pt	2.522918	2.224039	-0.875168
Pt	-1.992514	-0.404748	-3.788266	Pt	1.497509	1.300699	4.210043
Pt	-1.014422	-3.252144	-0.625903	Pt	2.103933	-0.768440	2.651959
Pt	-1.019830	-0.758539	0.633106	Pt	-1.929760	2.311733	1.729352
Pt	-2.826852	-1.430973	-1.388209	Pt	-0.129135	-0.776527	4.239981
Pt	1.037821	0.766502	-0.615722	Pt	1.851640	-2.790691	0.906077
Pt	1.971971	-2.218047	3.592770	Pt	-0.402925	-3.251415	-2.820348
Pt	-2.906807	2.933838	-1.217695	Pt	-2.098857	0.776897	-2.653515
Pt	3.262559	-3.015693	-1.381328	Pt	-0.537287	-4.038892	1.444679
Pt	0.354210	0.930324	-3.319249	Pt	1.736293	2.700146	-3.369461
Pt	-0.905294	3.342573	2.579261	Pt	0.541832	4.034137	-1.430767
Pt	-0.214107	3.005558	-1.721405	Pt	-1.886755	-4.184939	-0.832128
Co	-1.307477	4.345450	0.235297	Pt	1.413200	-0.182827	0.010768
Co	3.799672	-0.786325	2.383352	Co	-0.866599	2.980615	-3.318420
Co	0.341946	1.157180	1.972113	Co	0.296401	2.245936	0.424023
Co	-1.169174	1.937154	0.421641	Co	0.083479	0.762499	2.170705
Co	0.293945	-1.502221	-4.267169	Co	-1.100440	1.610155	4.104075
Co	1.187158	-1.929191	-0.404264	Co	0.206885	1.485744	-1.746446
Co	1.325452	-4.337491	-0.217926	Co	0.875066	-2.969197	3.324010
Co	1.526352	-0.771368	1.555375	Co	-0.081836	-0.759604	-2.171520
Co	-3.781678	0.794275	-2.365975	Co	1.109099	-1.597593	-4.104687
Co	-1.508359	0.779329	-1.537993	Co	-0.294546	-2.243989	-0.423597
Co	-0.323953	-1.149219	-1.954736	Co	-0.205326	-1.483354	1.748348
Co	-0.275946	1.510193	4.284544	Co	1.817016	4.088027	0.812044

Coordinates for Pt28Co10				Coordinates for Pt29Co9			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	2.326921	0.157972	-2.575841	Pt	2.259799	0.116367	-2.634224
Pt	0.218756	0.615235	-4.265630	Pt	0.112701	0.578392	-4.286505
Pt	-2.352173	-1.876555	-1.752484	Pt	-2.414464	-1.868829	-1.673777
Pt	-0.903070	4.529753	0.590971	Pt	-0.840701	4.542806	0.599022
Pt	-2.484826	-2.260848	0.911887	Pt	-2.479443	-2.232800	0.995297
Pt	0.258532	3.389123	2.676019	Pt	0.366272	3.399123	2.652012
Pt	-1.352811	-1.499901	-4.195668	Pt	-1.478438	-1.525910	-4.145903
Pt	2.038546	-2.319568	-1.589426	Pt	1.973990	-2.350300	-1.624439
Pt	-1.734034	-2.606283	3.446018	Pt	-1.664846	-2.570043	3.510819
Pt	-1.897208	2.705114	-1.067408	Pt	-1.905009	2.724876	-1.034235
Pt	-2.327755	-0.155052	2.583578	Pt	-2.257252	-0.118392	2.648485
Pt	2.351291	1.873316	1.739097	Pt	2.416125	1.857102	1.665187
Pt	1.362542	1.517717	4.193854	Pt	1.491941	1.525751	4.149327
Pt	2.483172	2.252765	-0.912887	Pt	1.416488	-0.158876	0.012819
Pt	-1.298065	1.793219	4.108529	Pt	2.480777	2.219205	-0.990093
Pt	2.062403	-0.601200	2.723939	Pt	-1.167746	1.827705	4.134151
Pt	-0.206547	-0.616051	4.274769	Pt	2.130557	-0.607522	2.674140
Pt	-2.038156	2.333369	1.589567	Pt	-0.095994	-0.590521	4.285259
Pt	0.911242	-4.532845	-0.609387	Pt	-1.969962	2.361093	1.633456
Pt	-0.246047	-3.375635	-2.694183	Pt	0.853702	-4.547821	-0.599394
Pt	1.905997	-2.698116	1.059296	Pt	-0.347674	-3.394855	-2.659972
Pt	-1.413100	0.147589	-0.053138	Pt	1.909398	-2.712101	1.028642
Pt	-2.053727	0.606717	-2.733232	Pt	-2.127319	0.609372	-2.688277
Pt	-0.458445	-3.993154	1.593850	Pt	-0.452230	-3.980516	1.634735
Pt	1.745177	2.603442	-3.443487	Pt	1.678515	2.570713	-3.513519
Pt	0.469981	3.983350	-1.591848	Pt	-1.411383	0.158303	-0.012773
Pt	1.417183	-0.143642	0.047783	Pt	0.470413	3.982376	-1.625045
Pt	-1.750222	-4.268729	-0.703754	Pt	-1.807358	-4.258927	-0.624780
Co	-0.865396	2.813896	-3.463305	Pt	-0.980770	2.874921	-3.545175
Co	0.224737	2.269819	0.335685	Co	0.254763	2.270200	0.315783
Co	0.011092	0.853686	2.139579	Co	0.078521	0.864848	2.134848
Co	0.209971	1.416453	-1.804012	Co	0.174794	1.404065	-1.819278
Co	1.690709	4.166513	0.672845	Co	1.752380	4.150643	0.608681
Co	0.880117	-2.810501	3.457642	Co	0.947006	-2.800208	3.454158
Co	-0.008101	-0.851745	-2.142367	Co	1.129169	-1.779856	-4.028180
Co	-0.221739	-2.267818	-0.338429	Co	-0.250819	-2.269192	-0.315550
Co	-0.207466	-1.416372	1.803675	Co	-0.171112	-1.405375	1.820459
Co	1.250520	-1.735035	-4.012098	Co	-0.074790	-0.865818	-2.136162

Coordinates for Pt30Co8				Coordinates for Pt31Co7			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.163561	0.891672	-4.231762	Pt	0.004066	1.097726	-4.175539
Pt	-2.552173	-1.713133	-1.643775	Pt	-2.447106	-1.674924	-1.807075
Pt	-0.719399	4.504870	0.991916	Pt	-0.928473	4.480257	1.155286
Pt	0.594001	3.187674	2.882901	Pt	0.318874	3.124703	3.062975
Pt	-2.448549	-2.275951	0.987449	Pt	-2.470289	-2.332474	0.803232
Pt	-1.776098	-1.197147	-4.139731	Pt	-1.549653	-1.048954	-4.250406
Pt	1.821792	-2.246639	-1.922802	Pt	1.954973	-2.097222	-1.873682
Pt	1.481874	2.801143	-3.427727	Pt	1.551233	3.014853	-3.197083
Pt	-2.083593	-0.294191	2.773045	Pt	-2.254762	-0.414033	2.678809
Pt	-1.924142	2.813928	-0.700294	Pt	-1.993929	2.824321	-0.662479
Pt	2.558203	1.700764	1.640731	Pt	2.385631	1.736139	1.874046
Pt	1.780338	1.180091	4.150837	Pt	1.490103	1.100440	4.317663
Pt	2.454591	2.263516	-0.990187	Pt	1.382422	-0.103919	0.012341
Pt	2.287015	-0.836668	2.475152	Pt	2.406845	2.399380	-0.734736
Pt	-0.871382	1.515031	4.329041	Pt	-1.446779	0.170909	0.056346
Pt	2.080631	0.284266	-2.765316	Pt	2.138512	-0.837324	2.598106
Pt	0.169523	-0.917443	4.226013	Pt	-1.175741	1.362715	4.364868
Pt	-1.820507	2.251059	1.931161	Pt	1.117908	-1.305577	-4.292383
Pt	0.735467	-4.502490	-0.992043	Pt	-0.066206	-1.036904	4.227766
Pt	-0.579541	-3.184129	-2.876122	Pt	-2.015632	2.165691	1.947744
Pt	1.409354	-0.179619	-0.093924	Pt	0.870788	-4.412146	-1.071775
Pt	-1.478752	-2.812105	3.410336	Pt	-0.376461	-3.064574	-2.988039
Pt	-1.406834	0.173269	0.092464	Pt	-1.619045	-2.937558	3.255634
Pt	1.924863	-2.806458	0.694397	Pt	1.923968	-2.747007	0.731095
Pt	-0.412744	-4.090073	1.359252	Pt	-0.411562	-4.110939	1.222409
Pt	-2.290709	0.830720	-2.486017	Pt	-2.209572	0.904863	-2.539067
Pt	-1.170008	3.136951	-3.253591	Pt	-1.116744	3.271848	-3.153368
Pt	0.426710	4.096311	-1.365062	Pt	0.351930	4.194119	-1.148311
Pt	-1.916893	-4.182574	-0.819162	Pt	-1.796076	-4.158940	-1.033439
Pt	1.933362	4.172075	0.816266	Pt	2.191338	0.481119	-2.610152
Co	0.314258	2.238630	0.466464	Pt	1.738857	4.221575	1.111300
Co	0.079176	1.535025	-1.718655	Co	0.996671	-3.120815	3.142496
Co	1.120698	-3.068042	3.164568	Co	0.062504	0.658253	2.253853
Co	-0.310923	-2.239079	-0.466694	Co	0.193711	2.262517	0.599979
Co	0.232893	0.700149	2.184466	Co	-0.162889	-1.567663	1.687104
Co	-0.077648	-1.538419	1.717481	Co	-0.126743	-0.589887	-2.188706
Co	0.830015	-1.489300	-4.216206	Co	-0.257711	-2.192047	-0.532770
Co	-0.231334	-0.703700	-2.184903	Co	0.097330	1.638186	-1.621894

Coordinates for Pt32Co6				Coordinates for Pt33Co5			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.700159	1.569239	-3.988397	Pt	0.352645	-4.514800	-1.371499
Pt	-2.910556	-1.251719	-1.446752	Pt	-2.976280	0.916494	-1.679936
Pt	-0.160472	4.336563	1.734398	Pt	-0.495970	-2.254372	-0.449854
Pt	1.290473	2.657278	3.183332	Pt	-0.456693	4.428683	1.388469
Pt	-2.476666	-2.224180	1.024874	Pt	1.277941	-0.163396	-0.487578
Pt	0.095098	-0.887077	-4.587342	Pt	1.345700	3.050199	2.756325
Pt	1.311136	-2.041733	-2.498693	Pt	-3.017386	-1.674401	-0.925906
Pt	1.214493	3.209979	-3.171859	Pt	-0.476395	-1.322253	-4.486739
Pt	-1.676957	-0.577454	2.997594	Pt	-2.137903	-2.374920	1.601989
Pt	-1.745026	3.014196	0.027068	Pt	-2.175341	-4.218359	-0.409836
Pt	2.464639	0.408070	3.949520	Pt	-0.067499	-4.216130	1.281227
Pt	2.910556	1.251719	1.446752	Pt	-0.481593	-3.013744	3.623084
Pt	2.476666	2.224180	-1.024874	Pt	-1.250005	-0.458501	3.281864
Pt	-0.095098	0.887077	4.587342	Pt	2.848491	1.011836	3.542119
Pt	2.544735	-1.367470	1.945655	Pt	2.867191	1.639061	0.935481
Pt	-1.311136	2.041733	2.498693	Pt	2.009492	2.322233	-1.529779
Pt	1.676957	0.577454	-2.997594	Pt	0.357442	1.303943	4.489735
Pt	-1.356331	0.253813	0.337964	Pt	2.866125	-0.941166	1.716057
Pt	0.700159	-1.569239	3.988397	Pt	-1.241068	2.120798	2.498299
Pt	0.160472	-4.336563	-1.734398	Pt	1.139849	0.433840	-3.245749
Pt	1.745026	-3.014196	-0.027068	Pt	1.342335	-1.112609	4.030685
Pt	-1.214493	-3.209979	3.171859	Pt	1.140420	-2.161946	-2.507568
Pt	-1.290473	-2.657278	-3.183332	Pt	2.019910	-2.862476	0.020333
Pt	-0.590314	-4.226517	0.805065	Pt	-2.111652	3.270597	-2.607110
Pt	-2.464639	-0.408070	-3.949521	Pt	-2.972713	-1.029534	-3.537119
Pt	-2.544735	1.367470	-1.945655	Pt	-2.098769	2.803964	0.033039
Pt	-1.345242	3.688992	-2.534035	Pt	-1.448144	1.110047	-3.989950
Pt	1.356331	-0.253813	-0.337964	Pt	0.379400	2.978503	-3.554727
Pt	-2.399263	-3.857557	-1.096570	Pt	-1.475477	-3.094656	-2.765717
Pt	0.590314	4.226517	-0.805065	Pt	-0.035076	4.150001	-1.212383
Pt	2.399263	3.857557	1.096570	Pt	-1.386069	0.148988	0.525833
Pt	1.345242	-3.688992	2.534035	Pt	2.035723	4.136426	0.440332
Co	-0.577639	-2.114196	-0.730428	Pt	2.014728	-3.306467	2.673471
Co	0.577639	2.114196	0.730428	Co	-0.936089	-0.574672	-2.124573
Co	-0.033735	1.780029	-1.472199	Co	0.380047	2.200324	0.479838
Co	0.611374	0.334166	2.202628	Co	-0.475332	1.608886	-1.586430
Co	0.033735	-1.780029	1.472199	Co	0.802635	0.590968	2.086803
Co	-0.611374	-0.334167	-2.202627	Co	0.396100	-1.635781	1.704520

Coordinates for Pt34Co4				Coordinates for Pt35Co3			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.388083	-4.158460	-2.150884	Pt	0.636429	-2.303886	-2.399246
Pt	-3.109263	1.114018	-1.302074	Pt	3.294063	-2.985698	1.355155
Pt	-2.397205	3.630929	-1.911901	Pt	-1.177481	-1.955509	4.091824
Pt	-0.406204	4.218035	2.122554	Pt	2.730735	-1.147522	-3.629731
Pt	1.577949	2.672197	3.105199	Pt	-2.962989	-0.743952	2.481368
Pt	-3.214508	-0.515080	-3.434848	Pt	-1.423765	-3.334503	-1.069241
Pt	-1.596058	-2.612627	-3.133531	Pt	-0.934024	3.315638	-0.125488
Pt	-3.001218	-1.565162	-0.964060	Pt	3.198280	-0.965691	3.037108
Pt	-1.874929	-2.632806	1.337990	Pt	1.081209	-2.568281	2.771377
Pt	0.200436	-4.315577	0.538373	Pt	-3.476295	0.806676	-1.674782
Pt	-0.028120	-3.535554	3.077902	Pt	1.872137	1.236221	2.613029
Pt	0.789195	0.610455	4.600860	Pt	-3.548024	2.903727	0.027322
Pt	2.983098	1.624737	0.935724	Pt	-3.054379	-1.435937	-0.166402
Pt	-1.311299	0.049164	0.631945	Pt	-0.007790	2.612993	-3.773090
Pt	-0.884071	-0.995309	3.246065	Pt	-4.587621	0.568456	0.772057
Pt	1.856810	2.692379	-1.366323	Pt	-0.275705	-0.349037	2.186159
Pt	3.196404	0.574641	3.406503	Pt	0.986196	-0.449814	4.465248
Pt	-1.023879	1.684353	2.923818	Pt	-1.972854	0.897089	0.581926
Pt	0.865960	1.054882	-3.274411	Pt	3.099050	1.489874	0.188993
Pt	1.293182	0.010414	-0.660284	Pt	4.411826	-0.714799	0.639479
Pt	-0.807289	-0.550900	-4.629201	Pt	-2.334547	3.154601	-2.370175
Pt	1.788698	-1.674360	3.660294	Pt	-1.832491	-1.183324	-2.580513
Pt	2.132060	-2.692420	-0.650103	Pt	4.191986	0.212956	-1.868504
Pt	2.379097	-3.571364	1.883544	Pt	1.611187	0.041062	-1.541815
Pt	3.091155	-1.054448	1.273728	Pt	-1.517585	0.674938	4.255992
Pt	-0.218554	4.375152	-0.566713	Pt	1.376662	2.774806	-1.514544
Pt	1.005777	-1.624779	-2.952146	Pt	-1.345279	-2.713588	1.516061
Pt	-1.806801	1.733918	-3.688646	Pt	-0.785484	1.142567	-1.763987
Pt	-2.150174	2.751999	0.621759	Pt	0.279354	-0.073625	-3.924601
Pt	0.010009	3.595120	-3.106247	Pt	3.072474	-2.156602	-1.162807
Pt	-2.050324	-4.122176	-0.941058	Pt	-0.622141	2.361572	2.434536
Pt	2.032193	4.181757	0.912735	Pt	-3.237574	1.945262	2.608073
Pt	-0.431197	-2.111628	-0.800775	Pt	0.940453	-3.191678	0.142337
Pt	0.413077	2.171207	0.772443	Pt	-2.163609	1.069596	-4.017119
Co	-0.656492	1.893245	-1.374962	Pt	2.439411	1.493010	-3.561936
Co	-1.071633	-0.212694	-2.148538	Co	0.582528	1.323089	0.433604
Co	1.053523	0.272266	2.120195	Co	1.863590	-0.842304	0.855419
Co	0.638381	-1.833673	1.346622	Co	-0.441251	-1.044586	-0.332330

Coordinates for Pt36Co2				Coordinates for Pt37Co1			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.950285	1.829941	2.685682	Pt	-1.700094	2.473924	-3.030196
Pt	0.140253	-3.291945	2.168491	Pt	-0.392958	0.525747	-1.798158
Pt	2.672007	1.855449	-2.232889	Pt	2.302492	3.627102	0.362112
Pt	-3.459853	-0.807523	2.932692	Pt	-2.369629	-0.070938	-3.479874
Pt	3.333613	-0.120468	-0.458581	Pt	1.482972	-2.588935	-2.925974
Pt	-1.250893	-1.043219	1.565556	Pt	1.122840	2.251006	2.346717
Pt	2.602812	-2.549686	-1.485699	Pt	-4.122262	-0.403061	0.805725
Pt	1.423293	0.664336	-4.313388	Pt	-0.793495	-1.790056	3.728736
Pt	0.252204	3.835716	0.959518	Pt	4.135689	0.541459	-0.774585
Pt	-0.972990	0.885465	-3.203861	Pt	-2.793757	-2.366355	2.033453
Pt	-1.210052	1.557519	1.124421	Pt	-0.271264	-2.997757	1.397461
Pt	-2.445576	3.830459	0.790730	Pt	2.219215	-0.039615	-2.546659
Pt	3.080974	0.326478	2.153000	Pt	2.268686	-3.445928	0.667546
Pt	-1.312509	0.654456	3.679716	Pt	3.613568	1.652875	1.591046
Pt	-2.541255	-2.303007	-0.477479	Pt	-2.254865	-3.467272	-0.333325
Pt	0.908176	-0.851533	3.140509	Pt	-0.239856	4.102146	1.031269
Pt	-2.556935	-3.260267	1.993458	Pt	-1.612393	-0.922672	0.133034
Pt	-1.269642	3.291488	3.118013	Pt	0.278809	-4.019233	-1.018940
Pt	-1.095344	-4.456375	0.065174	Pt	1.726410	-2.320217	3.040930
Pt	3.451572	-0.572152	-3.110581	Pt	-2.997318	1.063948	-1.145239
Pt	0.545804	3.048030	-3.400582	Pt	0.402704	-0.342100	1.840892
Pt	1.699799	4.186521	-1.288307	Pt	1.622143	1.106318	-0.090301
Pt	0.177726	-2.212345	-0.319197	Pt	-3.388301	2.127172	1.248661
Pt	0.435170	-3.995050	-2.205949	Pt	0.154394	-0.605581	-4.148843
Pt	-1.353057	-2.020342	4.019000	Pt	0.957551	-1.491395	-0.564501
Pt	-3.441142	0.141524	0.458608	Pt	-1.426844	2.692293	2.911055
Pt	0.243821	1.995738	-1.032964	Pt	-2.183896	0.176734	2.575033
Pt	-0.958138	4.278797	-1.416457	Pt	-3.580084	-1.508698	-1.562896
Pt	2.449292	2.281762	0.461322	Pt	3.031716	-0.925832	1.169395
Pt	-3.418072	1.853255	2.481373	Pt	2.827245	2.510552	-2.005317
Pt	1.380277	-2.073506	-3.848996	Pt	-0.119684	0.750127	4.198030
Pt	2.381148	-2.056952	1.197246	Pt	-2.201318	3.537034	-0.631122
Pt	-2.471901	2.112113	-1.226383	Pt	0.309423	3.138230	-1.373567
Pt	-1.015861	-1.843228	-2.741015	Pt	0.826979	1.934258	-3.700605
Pt	1.564800	-4.408206	0.169510	Pt	-1.083767	-2.111549	-2.318597
Pt	1.101513	-0.334163	-1.925170	Pt	3.472854	-2.015638	-1.239488
Co	-1.274376	-0.118275	-0.872410	Pt	2.403102	0.215126	3.508025
Co	0.956828	0.109567	0.677478	Co	-0.906010	1.605582	0.581532

Coordinates for Pt38Co0			
Atom	X	Y	Z
Pt	0.485164	-0.532983	-4.170358
Pt	-2.017004	-2.584309	2.676637
Pt	3.993745	-0.322653	1.362810
Pt	-0.909486	-2.609824	-3.205153
Pt	-3.145637	-2.182638	-1.803447
Pt	3.145637	2.182638	1.803447
Pt	-0.229123	3.120721	-1.316601
Pt	-2.461905	3.439945	0.130912
Pt	0.360448	-1.964926	3.731018
Pt	1.817320	0.111258	2.865278
Pt	-3.112518	-1.173087	0.678935
Pt	-1.640584	0.956194	-0.313063
Pt	-2.603205	2.393375	-2.325175
Pt	-3.993745	0.322653	-1.362810
Pt	-2.862618	-0.086400	3.115977
Pt	-0.779729	-1.586746	-0.760325
Pt	0.635879	0.521307	-1.740037
Pt	3.852445	-1.369224	-1.093276
Pt	-1.817320	-0.111258	-2.865278
Pt	-3.852445	1.369224	1.093276
Pt	2.461905	-3.439945	-0.130912
Pt	3.112518	1.173087	-0.678935
Pt	-0.485164	0.532983	4.170358
Pt	2.017004	2.584309	-2.676637
Pt	-2.158723	-3.633976	0.213296
Pt	0.077428	-4.061162	-1.188410
Pt	2.862618	0.086400	-3.115977
Pt	-0.635879	-0.521307	1.740037
Pt	2.158723	3.633976	-0.213296
Pt	1.524319	-2.058892	-2.227610
Pt	-1.524319	2.058892	2.227610
Pt	2.603205	-2.393375	2.325175
Pt	0.229123	-3.120721	1.316601
Pt	0.909486	2.609824	3.205153
Pt	1.640584	-0.956194	0.313063
Pt	-0.360448	1.964926	-3.731018
Pt	-0.077428	4.061162	1.188410
Pt	0.779729	1.586746	0.760325

Coordinates for PtCo(N=55)

Coordinates for Pt0Co55				Coordinates for Pt1Co54			
Atom	X	Y	Z	Atom	X	Y	Z
Co	1.733279	3.476897	-1.175623	Pt	-1.463153	0.135731	-3.934365
Co	1.541984	2.536554	2.768273	Co	-4.465766	-1.053995	-1.002479
Co	0.945680	-2.856735	-2.723952	Co	1.038966	-3.892181	-0.508773
Co	-1.457549	-1.761264	-0.490635	Co	0.414604	-3.567270	1.896122
Co	-0.486763	-3.914399	-0.956920	Co	1.617749	-1.558343	-0.651222
Co	-2.317741	-1.711338	2.859118	Co	1.415033	-0.131272	3.804952
Co	-1.733279	-3.476896	1.175623	Co	2.751122	1.213068	-3.608147
Co	-1.541984	-2.536554	-2.768273	Co	-0.002028	0.000190	-0.005448
Co	0.754384	-3.797077	1.219944	Co	0.380218	1.112259	2.020793
Co	3.072126	-2.085740	-1.639173	Co	-2.036652	2.540627	-3.430407
Co	0.241158	1.646282	-1.642809	Co	2.221187	0.523701	0.502660
Co	1.914485	-0.538651	1.229564	Co	2.020954	-2.492169	3.429072
Co	-0.107767	-1.454940	-4.461862	Co	2.677501	-2.856416	1.079091
Co	4.025124	-0.518063	0.071713	Co	-3.657550	-1.149389	1.323783
Co	1.707383	-2.229401	2.930831	Co	-1.031214	3.891461	0.529636
Co	0.191296	0.940343	-3.943896	Co	-0.408276	3.579435	-1.878249
Co	1.457550	1.761264	0.490635	Co	-1.365698	-0.603063	1.797714
Co	3.843630	-1.081427	2.468542	Co	3.918867	-1.055441	-0.148312
Co	-2.008219	-0.189831	-3.522240	Co	-1.004591	0.519519	3.898960
Co	-3.843630	1.081427	-2.468543	Co	0.764009	2.233813	4.059564
Co	-4.076255	-0.062079	2.327438	Co	-2.677193	2.866697	-1.059049
Co	-0.945679	2.856734	2.723952	Co	-2.667944	-1.687939	-2.585102
Co	4.076255	0.062078	-2.327438	Co	1.017578	-0.530202	-3.915763
Co	2.926260	3.536015	0.985027	Co	-1.011572	1.252963	-1.711590
Co	-3.440662	-1.247496	-1.755209	Co	2.884108	2.835131	0.370732
Co	-2.953898	2.666904	-0.798288	Co	3.659664	1.149201	-1.318111
Co	2.317741	1.711338	-2.859118	Co	-0.379402	-1.123927	-2.028687
Co	3.440662	1.247496	1.755208	Co	1.271488	-2.736293	-2.720823
Co	2.008219	0.189831	3.522240	Co	-1.258873	2.724811	2.735545
Co	-1.707383	2.229401	-2.930831	Co	1.360325	0.602997	-1.807930
Co	0.053678	0.724696	2.222422	Co	4.461927	1.051410	1.014239
Co	-0.754384	3.797077	-1.219944	Co	2.011879	2.917264	-1.977682
Co	0.484162	3.305171	-3.298198	Co	-3.040624	0.973969	2.509873
Co	0.107767	1.454940	4.461862	Co	3.047039	-0.974802	-2.496921
Co	-3.072126	2.085740	1.639173	Co	-3.314564	0.743290	-2.260754
Co	-3.558889	-1.828659	0.682253	Co	-1.205538	-4.528845	0.304130
Co	2.016905	-0.707895	-3.450527	Co	-0.754074	-2.281741	-4.073749
Co	-2.016905	0.707894	3.450527	Co	0.603527	2.255016	-0.142482
Co	0.000000	-0.000000	-0.000000	Co	-1.615034	1.558093	0.658534

Co	-1.914484	0.538651	-1.229564	Co	-2.880098	-2.836719	-0.356914
Co	-0.484162	-3.305170	3.298198	Co	-2.740472	-1.211109	3.614681
Co	-0.241158	-1.646282	1.642809	Co	0.370953	1.901021	-3.591423
Co	-2.926260	-3.536015	-0.985028	Co	1.004026	3.435667	1.918518
Co	0.980495	-2.075058	-0.447197	Co	3.294009	-0.731909	2.257177
Co	-4.025124	0.518063	-0.071713	Co	-3.242125	3.128487	1.325689
Co	2.030354	0.030921	-1.159280	Co	-3.915254	1.055351	0.162325
Co	2.953898	-2.666904	0.798289	Co	-0.600811	-2.255269	0.149798
Co	0.486763	3.914399	0.956920	Co	-2.005864	-2.916605	1.990836
Co	3.558889	1.828659	-0.682254	Co	2.655387	1.669238	2.577518
Co	-0.980495	2.075058	0.447198	Co	3.249977	-3.129212	-1.304557
Co	1.968498	-4.166007	-0.897820	Co	1.213390	4.528115	-0.282993
Co	-2.030354	-0.030921	1.159280	Co	1.006066	-1.240862	1.706863
Co	-0.053678	-0.724696	-2.222422	Co	-2.223784	-0.522892	-0.513881
Co	-1.968498	4.166006	0.897820	Co	-0.997430	-3.449035	-1.901621
Co	-0.191295	-0.940343	3.943896	Co	-0.365969	-1.881626	3.578626

Coordinates for Pt2Co53				Coordinates for Pt3Co52			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-3.566694	1.346694	1.755104	Pt	-3.575959	1.390731	1.705668
Pt	-1.085216	-3.977221	0.811114	Pt	-1.132434	-3.959758	0.817819
Co	1.862972	0.237016	3.596718	Pt	1.896124	0.245614	3.738354
Co	1.955228	-0.278147	1.249881	Co	1.953458	-0.294246	1.271121
Co	3.159258	2.524836	-0.377698	Co	3.184716	2.492632	-0.369673
Co	3.104783	1.706056	1.990109	Co	3.124482	1.695026	2.012382
Co	1.084068	1.949391	0.701681	Co	1.100446	1.940731	0.711172
Co	0.303246	-3.843312	-1.343475	Co	0.274859	-3.853669	-1.326224
Co	2.056852	-2.127994	2.786617	Co	2.024725	-2.149945	2.824694
Co	-0.959827	-2.497317	-3.060455	Co	-0.958177	-2.502737	-3.057815
Co	2.009909	0.522847	-1.070000	Co	-2.243954	0.017583	3.413240
Co	-2.196234	-0.021631	3.438905	Co	-1.821778	-0.218789	-3.621907
Co	-1.851912	-0.217787	-3.603649	Co	-1.946879	0.301192	-1.265763
Co	-1.962605	0.289083	-1.245029	Co	-3.201501	-2.516847	0.341392
Co	-3.170659	-2.549471	0.362988	Co	-0.163971	0.528681	2.288873
Co	-0.143424	0.511801	2.281008	Co	0.023502	-1.811079	1.504914
Co	-0.078484	-1.324239	3.839556	Co	-2.212662	-3.919205	-1.463030
Co	-2.186378	-3.934066	-1.459987	Co	-3.892303	0.598760	-2.566696
Co	-3.922164	0.574718	-2.522941	Co	2.219832	-0.014271	-3.404129
Co	2.192399	0.024977	-3.419265	Co	-0.325677	1.066758	4.601960
Co	-0.258184	1.023295	4.578777	Co	1.352568	-1.823764	-0.572390
Co	1.366772	-1.806386	-0.591064	Co	2.734234	-3.642127	-1.164186
Co	2.763233	-3.606348	-1.197857	Co	3.949934	-0.597099	2.537315
Co	3.932725	-0.556952	2.507109	Co	-3.094099	-1.673930	-2.033542
Co	-3.096805	-1.693768	-2.010701	Co	4.055397	0.212654	0.201375
Co	4.049950	0.252391	0.181129	Co	3.375775	-2.152298	0.694664
Co	3.399449	-2.115195	0.667177	Co	-0.004229	-0.003488	0.009401
Co	4.039813	1.055067	-2.150903	Co	4.066138	1.004812	-2.129828
Co	-0.040352	1.811734	-1.477725	Co	-0.008556	1.803572	-1.485570
Co	-1.372960	1.810643	0.593985	Co	-1.362465	1.827094	0.569013
Co	2.180952	3.915941	1.408032	Co	2.205033	3.908337	1.399695
Co	1.464763	-3.701111	0.907833	Co	1.417451	-3.713181	0.933091
Co	0.099212	1.338097	-3.835429	Co	0.145197	1.316688	-3.842029
Co	1.541174	-2.342685	-2.934621	Co	1.540778	-2.372939	-2.913328
Co	0.050507	-1.820140	1.486580	Co	-0.137535	-1.311134	3.866244
Co	-4.065065	-1.089240	2.166082	Co	-2.059253	-2.375264	2.608341
Co	-2.005803	-2.406860	2.620762	Co	-4.102323	-1.039094	2.124457
Co	1.068168	3.839026	-0.793586	Co	1.110892	3.821201	-0.805792
Co	0.134625	-0.501031	-2.278888	Co	0.148988	-0.513651	-2.274606
Co	2.012399	2.384431	-2.600605	Co	2.056893	2.350841	-2.599745

Co	0.117929	-3.651958	3.006331	Co	0.304757	-1.030546	-4.574323
Co	0.276261	-1.004599	-4.580018	Co	0.049715	-3.644876	3.022331
Co	-3.405550	2.146112	-0.680864	Co	-3.379434	2.175088	-0.730480
Co	-1.084929	-1.959147	-0.714176	Co	-1.096967	-1.950866	-0.713541
Co	3.450865	-1.296126	-1.698531	Co	2.023284	0.497676	-1.057587
Co	-1.535187	2.375097	2.944366	Co	-1.552439	2.411996	2.910827
Co	-0.077938	3.639391	-2.970256	Co	-0.016348	3.623330	-2.991739
Co	-2.021573	-0.543092	1.077294	Co	-2.038763	-0.518021	1.058511
Co	-4.068299	-0.250823	-0.189635	Co	-2.728027	3.697769	1.131745
Co	-2.747240	3.663964	1.185958	Co	-4.070346	-0.213399	-0.232977
Co	-0.280083	3.834028	1.318042	Co	-0.258698	3.845211	1.287720
Co	-1.430175	3.693230	-0.911114	Co	-1.388260	3.701975	-0.948748
Co	-2.031848	2.141199	-2.788035	Co	-1.984450	2.144875	-2.820243
Co	0.974826	2.509295	3.039647	Co	0.968695	2.535147	3.049953
Co	-0.006748	-0.003712	0.003720	Co	3.449615	-1.339755	-1.670382

Coordinates for Pt4Co51				Coordinates for Pt5Co50			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-3.278423	2.022690	1.663389	Pt	-2.916383	2.933403	-0.750253
Pt	-1.632638	-3.674365	1.221611	Pt	1.674462	2.424134	2.990152
Pt	2.057952	0.303131	3.649484	Pt	-2.524593	-1.782798	2.843021
Pt	1.646742	3.662878	-1.237084	Pt	2.515470	1.769586	-2.859312
Co	3.409998	1.402345	1.767092	Pt	2.913383	-2.937743	0.744896
Co	-0.311015	-3.959107	-0.959352	Co	-0.664137	-3.848034	-1.137858
Co	-3.376033	-1.404805	-1.776294	Co	-1.920640	-3.463443	1.003827
Co	1.819650	-2.155884	2.959447	Co	-1.618821	-2.343580	-2.890792
Co	1.943194	-0.452844	1.240434	Co	0.561703	-3.909478	1.061573
Co	-1.417159	-2.614314	-2.775790	Co	0.331284	1.712858	-1.578883
Co	-2.082934	0.634976	3.458381	Co	3.006830	-2.186083	-1.704844
Co	-0.016191	-0.735982	-2.217913	Co	1.882609	-0.673555	1.244359
Co	0.161781	0.918391	-3.959591	Co	-0.119398	-1.271335	-4.526736
Co	-1.381586	-1.834423	-0.492757	Co	4.022860	-0.719830	0.103735
Co	-1.984481	-0.296352	-3.531251	Co	1.545508	1.680431	0.572585
Co	0.176406	1.651411	-1.660853	Co	1.575384	-2.444881	2.872808
Co	-2.787626	-3.688553	-1.020762	Co	0.284256	1.094432	-3.925991
Co	-1.938793	0.453286	-1.233249	Co	-0.049940	-0.623866	-2.255075
Co	-3.880365	0.896184	-2.501201	Co	3.788764	-1.357609	2.502992
Co	-0.163863	-0.930900	3.975999	Co	-3.786118	1.345472	-2.508204
Co	2.030213	0.121299	-1.157159	Co	-4.157623	0.048624	2.272373
Co	1.392410	1.831970	0.499076	Co	-1.534883	-1.670497	-0.575010
Co	0.005604	1.502893	4.492412	Co	-0.857262	2.797267	2.856356
Co	2.157319	-4.081902	-0.886710	Co	4.148280	-0.062154	-2.289058
Co	3.927070	-0.925119	2.477138	Co	3.111064	3.382564	1.152217
Co	2.261997	1.797721	-2.888453	Co	-3.471210	-1.021035	-1.857780
Co	4.078954	0.217542	-2.327446	Co	1.918853	3.460496	-1.027065
Co	3.071460	-2.538949	0.804680	Co	0.840424	-2.787577	-2.840118
Co	2.804763	3.684612	1.000508	Co	3.496384	1.023413	1.856425
Co	3.503103	1.982108	-0.688862	Co	0.045896	0.623459	2.269248
Co	4.049671	-0.350314	0.071270	Co	1.971381	-0.051452	3.581815
Co	1.079202	-2.824317	-2.714540	Co	-1.580805	2.434115	-2.881426
Co	-4.117235	-0.260385	2.326032	Co	-0.567865	3.903478	-1.073642
Co	-2.044720	-0.129044	1.157977	Co	0.663891	3.446967	-3.182694
Co	-2.259952	-1.820197	2.876760	Co	-0.333980	-1.716760	1.574069
Co	2.055046	-0.640980	-3.446173	Co	0.092122	1.254724	4.567847
Co	-0.165764	-1.654266	1.667308	Co	-3.015337	2.178425	1.695433
Co	-0.331203	-3.331760	3.351680	Co	-3.675270	-1.696359	0.553823
Co	-3.499984	-2.003398	0.668195	Co	2.038886	-0.672655	-3.475983
Co	1.065178	-2.037855	-0.433629	Co	-1.878057	0.679683	-1.236517

Co	-0.028370	-1.482203	-4.461031	Co	-2.056822	0.658322	3.471018
Co	-3.081003	2.547276	-0.839045	Co	-0.673234	-3.460498	3.166005
Co	3.158897	-1.957306	-1.627691	Co	-0.297595	-1.113389	3.922203
Co	-1.091722	2.852699	2.715226	Co	0.890846	-2.108876	-0.526384
Co	0.341182	3.311806	-3.366567	Co	-3.076764	-3.355772	-1.180770
Co	-4.069827	0.334895	-0.097683	Co	2.060752	-0.028885	-1.135329
Co	-2.155074	4.129725	0.854917	Co	-4.025930	0.710720	-0.115006
Co	0.001371	0.747824	2.233489	Co	0.667739	3.872134	1.130967
Co	0.325082	3.963523	0.938648	Co	-0.886673	2.115382	0.534124
Co	-1.069805	2.052220	0.427042	Co	3.678079	1.688784	-0.575878
Co	-0.916757	3.776280	-1.268562	Co	1.775758	-4.255882	-1.081761
Co	-0.001968	0.003640	0.008231	Co	-2.063445	0.024980	1.130517
Co	0.928715	-3.777800	1.241273	Co	0.002693	0.003899	0.004810
Co	-1.796451	2.129332	-2.960576	Co	-1.786126	4.256851	1.073209
Co	1.427981	2.630667	2.782523	Co	-1.966650	0.039424	-3.560041

Coordinates for Pt6Co49				Coordinates for Pt7Co48			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	2.320559	1.990728	-2.881161	Pt	1.254421	1.388742	-3.794240
Pt	-2.320560	-1.990728	2.881160	Pt	-3.801630	-1.664266	-0.407837
Pt	1.527092	2.535157	2.981615	Pt	1.484744	-3.615193	1.519250
Pt	-1.527093	-2.535158	-2.981615	Pt	-0.935829	1.249175	3.903123
Pt	3.151521	-2.694260	0.676721	Pt	0.344293	-3.308620	-2.550851
Pt	-3.151522	2.694259	-0.676722	Pt	-1.451420	3.688272	-1.481035
Co	2.039365	-0.475720	-3.513212	Pt	3.844087	1.725708	0.408765
Co	0.895731	-3.855193	1.031085	Co	0.957633	-1.161452	-3.817981
Co	1.043555	-2.032562	-0.563890	Co	0.839731	-2.718903	3.779218
Co	-0.374604	-3.906854	-1.150724	Co	2.735746	-1.643339	2.564240
Co	4.071092	-0.390987	0.035432	Co	-1.343921	-2.125230	-3.999274
Co	-0.072375	-1.234078	-4.576271	Co	-0.390853	-4.055441	-0.194825
Co	-1.950434	0.527029	-1.206787	Co	0.022469	0.029143	-0.004579
Co	1.818326	-2.323573	2.832439	Co	3.070776	1.872118	-2.039917
Co	1.950433	-0.527030	1.206786	Co	-2.227465	0.306898	-0.636462
Co	0.135368	1.152024	-3.922057	Co	-0.835358	2.820320	-3.780412
Co	-0.166496	-1.745624	1.569514	Co	-1.086799	0.341859	-3.927683
Co	-1.818326	2.323572	-2.832439	Co	-3.896534	0.384600	1.125053
Co	3.928602	-1.060520	2.431421	Co	3.935723	-0.331335	-1.119202
Co	-0.036337	-0.613106	-2.271800	Co	-2.090565	-3.004567	-1.783083
Co	-3.928603	1.060519	-2.431421	Co	-2.703934	1.718798	-2.547705
Co	-2.038063	-0.145601	1.167636	Co	0.701595	1.114532	1.972022
Co	-4.105645	-0.292299	2.351304	Co	2.806731	3.832415	-0.506254
Co	0.374604	3.906853	1.150723	Co	2.021717	-4.215209	-0.883177
Co	0.166495	1.745623	-1.569514	Co	1.391900	2.214378	3.977343
Co	4.105644	0.292298	-2.351305	Co	4.550711	-0.525469	1.290040
Co	2.849376	3.616380	1.128384	Co	1.003278	-2.074003	-0.435698
Co	-3.434068	-1.291286	-1.807673	Co	3.008646	0.861286	2.669608
Co	1.617851	3.613136	-1.027526	Co	2.637278	-2.200326	-2.220720
Co	-2.101134	4.094341	1.136678	Co	3.224357	-0.153333	-3.494645
Co	1.414419	1.795332	0.560783	Co	1.013764	3.377902	-2.171159
Co	3.434068	1.291285	1.807672	Co	-0.956439	2.124151	0.452880
Co	-1.414419	-1.795333	-0.560783	Co	1.608072	-0.057961	-1.742555
Co	2.032109	0.088580	3.548340	Co	-0.973251	-3.292767	2.160779
Co	-2.032110	-0.088581	-3.548341	Co	-1.567129	0.102899	1.731499
Co	-1.027362	2.704143	2.891383	Co	3.319578	-2.387087	0.211364
Co	-1.043555	2.032561	0.563889	Co	1.129105	-0.260660	3.927795
Co	0.334226	3.516519	-3.161145	Co	2.125482	3.058043	1.759370
Co	0.036337	0.613106	2.271800	Co	2.269612	-0.245055	0.638692
Co	0.072374	1.234077	4.576270	Co	-1.181620	-1.289389	3.682754

Co	-3.521845	-1.985387	0.618682	Co	0.428724	-1.336794	1.873122
Co	1.027362	-2.704144	-2.891384	Co	-2.763054	-3.772527	0.502215
Co	-2.039366	0.475720	3.513211	Co	-2.596938	2.244902	2.231770
Co	2.038062	0.145600	-1.167636	Co	-0.650515	-1.045642	-1.988064
Co	-0.334227	-3.516519	3.161144	Co	-3.276026	2.446686	-0.187005
Co	-0.135369	-1.152025	3.922056	Co	-1.357294	-1.863545	0.237134
Co	-2.849377	-3.616380	-1.128385	Co	-4.510433	0.589691	-1.280211
Co	-1.617852	-3.613137	1.027526	Co	-1.949514	4.247291	0.920258
Co	3.148504	-1.922608	-1.765922	Co	0.436721	4.091345	0.201138
Co	-0.895731	3.855192	-1.031085	Co	-0.286419	3.273872	2.477581
Co	3.521844	1.985387	-0.618683	Co	-3.180834	0.178657	3.491534
Co	2.101134	-4.094341	-1.136678	Co	1.406823	1.915986	-0.265027
Co	-0.000000	-0.000000	-0.000000	Co	-3.010073	-1.816357	2.021803
Co	-3.148504	1.922608	1.765922	Co	-2.964260	-0.789955	-2.668116
Co	-4.071092	0.390986	-0.035433	Co	-0.395562	1.415810	-1.868304

Coordinates for Pt8Co47				Coordinates for Pt9Co46			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.154453	4.064423	1.087755	Pt	3.184928	-2.709324	0.576490
Pt	-1.517393	-3.766737	1.113350	Pt	0.515104	4.088252	0.915101
Pt	1.224707	-2.804405	-2.892577	Pt	0.766885	-2.961714	-2.889768
Pt	-4.204354	0.198051	-0.098662	Pt	-2.058298	2.265105	-2.888465
Pt	3.265634	-2.530464	0.814067	Pt	3.583803	1.937363	-1.055270
Pt	-0.153322	-1.054743	4.073764	Pt	-3.074913	2.101555	1.959322
Pt	3.542537	2.185826	-0.630984	Pt	-1.597082	-3.627404	1.414884
Pt	-1.903814	2.236816	-3.016410	Pt	2.379610	0.285086	3.459295
Co	0.018873	-0.665768	-2.258338	Pt	-3.700027	-1.378940	-1.491593
Co	-0.110889	-1.714601	1.623968	Co	4.147591	-0.987080	2.160998
Co	-0.180025	-3.965617	-1.072774	Co	-0.499999	-1.479657	-4.481492
Co	1.955070	-0.407493	1.254200	Co	1.595003	3.539598	-1.358143
Co	0.033214	-1.339588	-4.553099	Co	2.042039	-2.184142	2.824344
Co	1.145195	-2.010982	-0.483661	Co	1.932723	0.031029	-1.347033
Co	4.103180	-0.207397	0.110445	Co	-0.170343	0.928786	-3.977679
Co	1.881336	-2.162537	2.948450	Co	0.978059	-2.091668	-0.516793
Co	2.052155	0.194102	-1.140971	Co	1.483698	1.807543	0.360814
Co	3.932599	-0.808339	2.529930	Co	2.055225	-0.488657	1.065832
Co	1.316413	2.622923	2.858587	Co	-4.143053	1.023120	-2.152926
Co	-3.957320	0.829813	-2.540418	Co	-1.939096	-0.081635	1.335707
Co	-1.972083	-0.261181	-3.581455	Co	-1.763032	-2.615024	-2.643805
Co	-4.107417	-0.453566	2.330479	Co	3.882612	0.080554	-2.728008
Co	4.120012	0.408192	-2.316592	Co	-4.082032	0.436662	0.287488
Co	-1.220295	2.738061	2.785492	Co	-0.260158	-0.737987	-2.222289
Co	2.673966	3.792861	1.125530	Co	2.999913	3.650815	0.720367
Co	-3.344504	-1.482636	-1.837376	Co	-0.782620	2.908115	2.801374
Co	-3.196692	2.464745	-0.795264	Co	-3.107094	2.643103	-0.562404
Co	2.109095	-0.474609	-3.473922	Co	-0.502510	-3.988334	-0.892734
Co	3.340594	1.496728	1.833063	Co	3.609605	1.345224	1.455134
Co	1.963193	0.296139	3.575292	Co	0.952453	-3.818385	1.203776
Co	0.290673	3.447747	-3.247301	Co	0.220727	0.771528	2.215150
Co	-1.054129	3.797003	-1.162170	Co	-1.743138	0.698962	3.631330
Co	-0.054457	1.416096	4.529682	Co	-0.929869	3.826804	-1.194676
Co	-1.326166	-2.590723	-2.872976	Co	1.714319	-0.709691	-3.642942
Co	-3.269845	1.796836	1.663446	Co	-2.053131	0.505289	-1.062106
Co	-3.448540	-2.150625	0.611285	Co	0.171227	3.322636	-3.384370
Co	-1.957459	0.417674	-1.251189	Co	0.440245	1.530498	4.470672
Co	3.273988	-1.838733	-1.667799	Co	-0.993118	2.086059	0.510712
Co	-1.322338	-1.871625	-0.556618	Co	-3.892277	-0.157255	2.710836
Co	-0.235043	-3.461494	3.279992	Co	0.085447	1.658484	-1.671229

Co	-2.110588	0.479981	3.472277	Co	-3.487340	-1.929840	1.015620
Co	0.142548	1.719531	-1.605615	Co	-0.101808	-3.296755	3.412360
Co	-2.664204	-3.760445	-1.131540	Co	-0.039640	-1.641415	1.689691
Co	0.165410	1.061649	-3.948488	Co	0.174351	-0.896937	3.984803
Co	1.055865	-3.803245	1.164078	Co	0.000001	-0.000001	-0.000001
Co	-0.028461	0.700304	2.247761	Co	-2.971817	-3.674714	-0.715277
Co	-2.358910	4.002091	0.967086	Co	4.078887	-0.461625	-0.293076
Co	-2.039634	-0.239195	1.154773	Co	-2.023793	-1.746495	3.093160
Co	-2.212975	-1.983056	2.837551	Co	-1.470730	-1.818575	-0.358463
Co	-1.172355	1.989861	0.470261	Co	2.981010	-2.088812	-1.915143
Co	2.321873	-4.055302	-0.979287	Co	1.743603	2.631551	2.640287
Co	1.320019	1.878390	0.548421	Co	1.976778	-4.222737	-1.052457
Co	0.000578	-0.002086	0.000633	Co	2.048597	1.725404	-3.088669
Co	1.491428	3.677656	-1.084775	Co	-2.009406	4.210578	1.039291
Co	2.228617	1.953687	-2.811391	Co	-2.348093	-0.244919	-3.368055

Coordinates for Pt10Co45				Coordinates for Pt11Co44			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	3.924362	1.120548	-1.072606	Pt	-3.821023	-1.783218	-0.428750
Pt	0.648823	2.200759	-3.529282	Pt	1.425262	-3.525132	1.818671
Pt	2.668174	1.423859	2.952380	Pt	2.980886	1.061368	2.803169
Pt	1.372485	-2.666128	-2.968973	Pt	-1.106587	1.487713	3.792485
Pt	-2.668176	-1.423850	-2.952379	Pt	0.424517	-3.512340	-2.297138
Pt	-4.031142	1.247354	0.027125	Pt	0.433569	4.184658	-0.057154
Pt	-2.308320	-3.086337	1.693014	Pt	-3.405874	2.445728	-0.477053
Pt	-0.929850	4.031205	0.777757	Pt	4.067985	-0.434990	-0.997757
Pt	-1.265706	0.298216	4.014447	Pt	-3.199280	-1.796547	2.128509
Pt	2.589346	-3.145619	1.058513	Pt	1.350230	1.133733	-3.841605
Co	3.269327	-3.203952	-1.381857	Pt	-1.033409	0.048613	-4.100650
Co	2.236344	0.382372	0.676677	Co	-1.056296	-3.197937	2.370126
Co	0.945870	-3.926599	-0.765021	Co	-1.237126	-2.474063	-3.900500
Co	0.848369	-1.406479	1.691267	Co	-0.742662	2.570777	-3.950931
Co	0.000003	-0.000002	0.000001	Co	1.412687	1.854264	-0.325936
Co	-0.616121	-1.916148	-4.341393	Co	3.117605	1.704747	-2.056033
Co	1.714829	-2.835427	3.397893	Co	-2.915199	-1.041331	-2.721979
Co	-1.775352	2.853092	-3.351709	Co	1.012391	-2.122906	-0.255273
Co	0.721258	2.244104	0.045563	Co	-2.665452	1.503623	-2.747503
Co	3.157096	-1.045616	2.418275	Co	1.632053	-0.203724	-1.694176
Co	-1.217443	0.479651	-3.898256	Co	-1.332074	-1.071374	3.748876
Co	2.263251	2.990204	-1.683584	Co	2.838804	3.743670	-0.657170
Co	-1.020302	-3.277162	-2.260456	Co	0.701260	-2.484583	3.994151
Co	-3.062778	-1.376379	3.404158	Co	2.047943	-4.290758	-0.516775
Co	0.613976	1.963671	4.320414	Co	-2.248300	0.196930	-0.728242
Co	3.191195	-0.931169	-2.434932	Co	-0.379247	-4.100592	0.076534
Co	-0.683246	-2.255195	-0.074566	Co	1.053346	-1.445896	-3.715527
Co	3.012349	2.695903	0.740489	Co	1.071926	3.200115	-2.335859
Co	-0.306966	-0.945347	-2.148820	Co	0.342580	-1.231672	1.990419
Co	3.038459	1.363388	-3.431075	Co	1.212980	2.492350	3.904423
Co	0.305664	0.974158	2.136102	Co	3.725823	1.681946	0.420140
Co	4.521202	0.776688	1.361749	Co	4.523786	-0.449862	1.491064
Co	-0.886380	1.417569	-1.662261	Co	2.233821	-0.225002	0.742913
Co	-3.191196	0.931161	2.434929	Co	-0.006218	-0.003908	0.003989
Co	-2.536869	3.077568	-0.995455	Co	3.318377	-2.394393	0.492321
Co	-1.607128	1.588996	0.699768	Co	3.317647	-0.406853	-3.412333
Co	1.222791	-0.278880	-3.925100	Co	-1.385679	-1.897203	0.333020
Co	-0.169116	3.750190	-1.655779	Co	2.707687	-2.375197	-1.989497
Co	1.188563	-0.454111	3.907886	Co	-1.394523	3.464628	-1.719109
Co	-3.180608	1.035377	-2.387921	Co	-2.034504	-3.183146	-1.637153

Co	-2.987135	-2.723391	-0.754183	Co	-2.784779	-3.832143	0.665022
Co	-1.328209	2.616422	2.893036	Co	-4.530689	0.413727	-1.484817
Co	1.619190	-1.582559	-0.686424	Co	2.643409	-1.486887	2.784746
Co	-3.828625	-1.111703	1.041703	Co	-0.613181	-1.220796	-1.933593
Co	-2.235043	-0.411181	-0.663954	Co	-2.023118	4.296235	0.559649
Co	-0.672246	-2.141185	3.444066	Co	-2.719955	2.367429	1.997619
Co	-1.382318	-4.538163	-0.142311	Co	2.058190	3.160222	1.640713
Co	1.505219	0.670887	-1.697548	Co	-3.351258	0.391473	3.400466
Co	-4.519064	-0.824198	-1.340772	Co	0.972444	-0.009808	4.002192
Co	3.934039	-1.225838	-0.009634	Co	-0.368453	1.268247	-1.957170
Co	1.047480	3.289366	2.234165	Co	-1.668743	0.187250	1.679426
Co	0.169113	-3.750193	1.655782	Co	-3.998180	0.392305	0.975577
Co	-1.517276	-0.677326	1.684204	Co	-0.408889	3.428607	2.253763
Co	-3.245008	3.216931	1.408765	Co	0.599801	1.232161	1.932079
Co	1.442843	4.520498	0.096121	Co	-1.004913	2.122195	0.281909

Coordinates for Pt12Co43				Coordinates for Pt13Co42			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-3.861540	-1.712650	0.007370	Pt	2.286746	3.529395	0.366958
Pt	1.600267	-3.502382	1.763780	Pt	2.617408	0.489705	3.305620
Pt	3.280021	1.109506	2.419282	Pt	1.903014	-2.503018	-2.837670
Pt	-0.673241	1.611304	3.836912	Pt	-2.613621	-0.517672	-3.303747
Pt	0.139130	-3.587612	-2.223648	Pt	-2.390623	3.245606	-1.311727
Pt	-1.579938	3.527194	-1.743188	Pt	-3.320640	0.315034	2.610177
Pt	0.459918	4.202020	-0.222995	Pt	0.039926	-4.192824	0.578153
Pt	-3.959894	0.519414	1.398635	Pt	-1.885564	2.510643	2.840949
Pt	3.956389	-0.532414	-1.439268	Pt	-3.759877	-1.548584	-1.175105
Pt	2.976765	1.657418	-2.521189	Pt	0.299699	-3.053651	2.932429
Pt	-1.426673	-0.069925	-3.974048	Pt	3.320649	-0.295720	-2.610658
Pt	-0.861592	-3.185824	2.638202	Pt	-0.326428	3.046211	-2.937984
Co	-1.664868	-2.572783	-3.678703	Pt	3.803930	-1.064291	1.538531
Co	0.927308	0.952151	-3.904095	Co	-2.577433	2.014076	-3.539038
Co	3.784867	1.656509	-0.054184	Co	2.555825	-2.047407	3.535581
Co	-3.185095	-1.068419	-2.387945	Co	3.443014	-2.132741	-0.784695
Co	-1.086040	2.436139	-3.978176	Co	-0.215063	-3.637268	-1.917364
Co	-2.898219	1.461787	-2.532155	Co	-0.994819	2.094859	0.486094
Co	-0.923174	-0.943117	3.893829	Co	3.667893	1.498967	1.160910
Co	-1.464395	0.249211	1.836120	Co	2.473825	2.972258	2.825712
Co	2.804620	3.730544	-1.068551	Co	1.231682	1.461335	1.400540
Co	-0.421342	-4.094091	0.246467	Co	4.754776	0.014612	-0.545945
Co	1.132339	-2.369948	3.989547	Co	-2.354295	0.022535	0.265817
Co	2.453104	-2.475749	-2.199670	Co	-2.452330	-3.000507	-2.806825
Co	1.936913	-4.334766	-0.608291	Co	-1.218341	-1.480872	-1.391799
Co	0.639472	-1.581946	-3.753291	Co	3.371469	1.944114	-1.339697
Co	-0.530978	1.216020	-1.966947	Co	2.354271	0.003327	-0.267936
Co	-2.461245	2.453457	2.198484	Co	1.936368	3.834486	-2.118002
Co	1.391944	1.847866	-0.536086	Co	-3.428109	2.155745	0.787088
Co	-2.296369	0.231383	-0.517818	Co	-0.000074	-0.000116	-0.000011
Co	0.957213	-2.147227	-0.295338	Co	0.241964	3.632898	1.919558
Co	0.819645	1.285251	1.810111	Co	0.434965	1.798227	3.683243
Co	2.312459	-0.222005	0.481954	Co	-2.002479	4.233303	0.987618
Co	1.654101	2.592664	3.667527	Co	1.018059	-2.084894	-0.480248
Co	3.332423	-2.420940	0.195662	Co	1.609108	-0.576348	-4.468326
Co	4.662516	-0.459481	0.995682	Co	-1.274412	0.993141	-1.744109
Co	1.449772	-0.278164	-1.860170	Co	-1.809390	-1.639537	3.320871
Co	-0.822954	-1.270810	-1.820830	Co	-4.753585	0.034241	0.539344
Co	0.856385	3.137524	-2.553820	Co	-0.048209	4.087692	-0.580056
Co	2.913980	-0.564885	-3.756094	Co	1.261812	-1.012582	1.742094

Co	-2.233757	-3.194786	-1.323347	Co	-1.607627	0.578630	4.468561
Co	-3.321635	2.425108	-0.205547	Co	-1.969068	-3.823519	2.097308
Co	2.929073	-1.431991	2.513662	Co	0.465268	-0.727635	4.031664
Co	-2.768126	-3.745090	1.060230	Co	0.946730	1.900844	-1.050970
Co	-0.951810	2.146241	0.311452	Co	-2.233705	-3.447524	-0.358450
Co	-4.638100	0.467067	-1.049364	Co	-3.386333	-1.921172	1.339433
Co	-1.928685	4.327436	0.642891	Co	-0.969114	-1.895270	1.040772
Co	2.257048	3.189844	1.314222	Co	-3.707434	1.022233	-1.512427
Co	1.407373	0.103293	3.866186	Co	-0.801631	0.289362	2.210788
Co	0.564386	-1.176679	1.971089	Co	2.315114	-3.171139	1.289002
Co	-2.949610	0.514992	3.724324	Co	-0.471610	0.717842	-4.032676
Co	0.004866	0.002468	-0.004968	Co	2.045624	-4.213734	-0.973902
Co	-2.913594	-1.627261	2.419258	Co	1.796011	1.645076	-3.325240
Co	-0.134602	3.498148	2.177263	Co	0.801485	-0.289593	-2.210810
Co	-1.367770	-1.853444	0.527017	Co	-0.424825	-1.808780	-3.679400

Coordinates for Pt14Co41				Coordinates for Pt15Co40			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	1.923914	3.651758	-0.993246	Pt	-2.908006	2.845051	-1.222488
Pt	1.650398	2.424196	3.059525	Pt	0.879221	1.186379	-4.029303
Pt	2.519617	1.898039	-2.872795	Pt	2.893085	1.932161	-2.493612
Pt	-0.951680	2.845725	2.990572	Pt	1.987220	3.709938	-0.760752
Pt	-2.539222	-1.877393	2.835551	Pt	0.323706	4.039543	1.260283
Pt	1.671052	-2.562472	2.943584	Pt	-4.134273	0.560351	-0.765523
Pt	-1.655468	-2.437868	-3.044493	Pt	1.481867	0.008987	3.955444
Pt	-0.303114	-1.226425	4.075288	Pt	3.268404	1.189222	2.425690
Pt	3.163620	-2.175495	-1.790558	Pt	-2.655536	0.607055	3.226295
Pt	-2.973793	2.919844	-0.746091	Pt	-1.960250	-3.672149	0.729615
Pt	-4.182110	0.669048	-0.122506	Pt	-1.100227	-2.515247	-3.249931
Pt	4.185653	-0.655844	0.106642	Pt	2.904309	-2.859758	1.161305
Pt	-0.624451	-4.010132	-1.206021	Pt	-2.868280	-1.913048	2.467732
Pt	0.274298	1.191124	-4.064310	Pt	3.435873	-2.117356	-1.302452
Co	3.848664	-1.342358	2.518686	Pt	-1.466546	-0.025687	-4.031302
Co	-2.076017	-0.016050	1.146541	Co	0.682549	-1.295858	-4.611565
Co	-3.824473	1.336009	-2.545980	Co	4.035224	-0.567312	0.685278
Co	-1.978615	0.047039	-3.613010	Co	1.244572	-2.401573	3.080806
Co	-4.197218	-0.039121	2.308153	Co	0.510182	1.765262	-1.552454
Co	4.217404	0.081392	-2.332243	Co	1.043775	-2.084716	-0.412205
Co	3.089110	3.444537	1.245185	Co	-1.061776	2.089217	0.363765
Co	0.039283	0.592342	2.303757	Co	3.493514	-1.269467	3.051930
Co	3.681294	1.796880	-0.547319	Co	1.403220	-2.775661	-2.727020
Co	-3.501405	-1.060948	-1.899578	Co	-0.499388	-1.727119	1.511145
Co	-1.896989	-3.532867	0.973095	Co	-3.475009	1.246146	-3.126498
Co	-1.531567	-1.701607	-0.603263	Co	-1.707050	0.614120	-1.562940
Co	0.912070	-2.792837	-2.900715	Co	-4.513237	-0.141821	1.646413
Co	1.904461	-0.671940	1.245617	Co	4.502612	0.153947	-1.665820
Co	0.603381	3.566572	-3.179164	Co	1.728454	-0.616868	1.487257
Co	0.077679	1.220038	4.662400	Co	2.802312	3.562220	1.649909
Co	-3.087704	2.133612	1.720392	Co	-0.299079	0.640874	2.242025
Co	0.942219	-2.104329	-0.546121	Co	2.231596	0.088075	-0.845362
Co	2.084036	-0.584805	-3.520798	Co	-0.566684	3.932699	-1.172707
Co	2.079695	0.049718	-1.154179	Co	-3.677864	-1.870341	-0.002262
Co	3.497120	1.059646	1.897253	Co	-1.233277	2.414995	-3.147771
Co	1.987446	-0.079228	3.622718	Co	-1.396928	2.777745	2.685679
Co	0.312947	1.755483	-1.574458	Co	1.003922	3.565028	-3.110673
Co	-0.662092	-3.584356	3.147316	Co	-0.615072	1.297640	4.551089
Co	-3.102532	-3.434937	-1.212055	Co	-2.222460	-0.070678	0.802355
Co	-3.683857	-1.762797	0.541013	Co	-0.981661	-3.507857	3.070782

Co	0.003218	0.000966	0.001740	Co	1.386612	1.764644	0.793509
Co	-0.930221	2.107949	0.552632	Co	-1.380439	-1.739811	-0.835615
Co	-0.069106	-1.253587	-4.622715	Co	-0.833011	-1.123706	3.862326
Co	2.920381	-2.836509	0.702011	Co	0.005211	0.011181	-0.027818
Co	-0.326372	-1.759556	1.567176	Co	1.104225	2.437468	3.134396
Co	0.602727	3.904027	1.209343	Co	-2.787664	-3.528924	-1.658739
Co	-0.028909	-0.621756	-2.288512	Co	0.333259	-0.620221	-2.297386
Co	0.632937	-3.940435	1.034847	Co	-3.156340	-1.167575	-2.420665
Co	-0.632375	3.940593	-1.034534	Co	-3.361604	2.061093	1.206439
Co	-1.622927	2.466326	-2.882712	Co	-0.333887	-3.918291	-1.243108
Co	-1.894409	0.663516	-1.255399	Co	0.561450	-3.904959	1.141698
Co	1.896388	-4.256335	-1.097747	Co	3.690328	1.880398	-0.027424
Co	1.524672	1.710982	0.614757	Co	2.096271	-4.225595	-0.816076
Co	-1.880303	4.261207	1.106473	Co	-2.153176	4.210018	0.773218
Co	-2.088735	0.583391	3.518242	Co	2.614080	-0.554697	-3.183176

Coordinates for Pt16Co39				Coordinates for Pt17Co38			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	2.764906	-2.460496	-2.123667	Pt	2.044324	3.664638	-0.811573
Pt	2.512236	-0.141625	3.419045	Pt	1.668389	2.235871	3.188430
Pt	1.854885	-2.608488	2.783872	Pt	2.167587	-0.478126	-3.641408
Pt	0.337397	-2.996833	-3.012313	Pt	-2.047078	-3.665392	0.786258
Pt	-1.063863	-4.005197	-1.013586	Pt	-0.703175	-3.926256	-1.463687
Pt	-3.893161	-0.853754	-1.461389	Pt	-2.165371	0.461301	3.644897
Pt	-2.056499	-3.454691	1.365825	Pt	-2.607825	-1.977852	2.738767
Pt	-1.844290	2.622574	-2.818846	Pt	-2.929605	3.057238	-0.581535
Pt	1.049672	3.996639	1.045952	Pt	-0.545678	4.143287	-0.858696
Pt	-0.129008	1.084149	-4.094960	Pt	3.154861	-2.175711	-1.877943
Pt	-0.497008	4.095193	-1.091384	Pt	-3.623047	-0.884904	-2.030015
Pt	4.134964	-0.971476	-0.428482	Pt	2.931153	-3.047325	0.604950
Pt	3.788499	1.553599	-1.092858	Pt	2.603168	1.967362	-2.750816
Pt	-4.105698	0.986116	0.406951	Pt	3.619821	0.909384	2.024943
Pt	-0.360747	2.978335	3.033170	Pt	-3.148371	2.172281	1.892877
Pt	-1.617307	0.806627	3.842296	Pt	1.580185	-2.732809	2.843778
Co	4.073168	-1.597702	2.035052	Pt	-2.005088	0.320649	-3.718271
Co	2.194543	1.581809	-3.111062	Co	-3.819074	1.611519	-2.474250
Co	-2.427714	0.145660	-3.342942	Co	-4.258345	-0.094807	2.257302
Co	-4.052439	1.612643	-2.064450	Co	-0.891713	2.107760	0.669778
Co	1.704341	1.611468	0.378647	Co	0.690179	3.831581	1.404831
Co	-3.866675	0.261958	2.822181	Co	-0.382132	-1.837200	1.470964
Co	2.130601	2.308524	2.691008	Co	4.258791	0.091412	-2.256594
Co	3.853616	-0.272893	-2.876977	Co	3.166396	3.344232	1.447168
Co	1.559083	-0.828158	-3.742914	Co	2.100329	0.042673	-1.127492
Co	3.452111	3.238612	0.766446	Co	0.530613	-4.028899	0.834987
Co	0.247763	1.704955	-1.641501	Co	1.885976	-0.783454	1.220897
Co	-2.771506	3.039878	-0.419914	Co	-0.079862	-1.006659	-4.685622
Co	3.797039	0.841356	1.401714	Co	3.734620	1.730875	-0.422515
Co	-1.992977	0.799669	-1.024790	Co	1.965986	-0.298456	3.621250
Co	2.013494	-0.784885	0.995703	Co	-1.547122	2.675137	-2.753350
Co	-1.712106	-1.609957	-0.369301	Co	-0.874942	2.633436	3.062218
Co	2.779963	-3.033789	0.407938	Co	0.735307	3.685194	-3.020490
Co	0.710075	-2.194342	-0.601702	Co	-1.566783	-1.640152	-0.718603
Co	0.530009	3.432595	-3.337394	Co	0.086084	0.959422	4.695411
Co	0.775777	1.301535	4.580508	Co	-1.883819	0.802568	-1.212035
Co	-1.913811	0.136278	1.393915	Co	-1.641072	-2.168554	-3.109955
Co	-3.710142	-1.492871	1.047833	Co	-3.736459	-1.725900	0.413145
Co	-0.234896	-1.685060	1.652161	Co	-0.029882	-0.496371	-2.319656
Co	1.993093	3.388546	-1.292778	Co	0.882660	-2.650010	-3.047929

Co	1.907798	-0.151238	-1.414290	Co	-2.100261	-0.043178	1.127600
Co	-0.484802	-3.398467	3.346625	Co	0.349763	1.354166	-3.888651
Co	-2.142110	-2.316817	-2.674706	Co	0.032788	0.474320	2.324224
Co	0.469819	-3.962121	1.079051	Co	-0.755934	-3.713208	2.991927
Co	-3.484331	-3.253877	-0.740754	Co	-0.000035	0.000264	-0.000057
Co	-0.384459	-0.660092	-2.249765	Co	1.560401	1.653090	0.703103
Co	-2.688857	2.362641	2.066733	Co	-0.352379	-1.376359	3.882400
Co	0.001346	0.000973	-0.001910	Co	4.064242	-0.762887	0.102657
Co	-0.788693	-1.318804	-4.542218	Co	0.901768	-2.108353	-0.653249
Co	0.380930	0.650441	2.256424	Co	-4.064181	0.771418	-0.096082
Co	1.444500	-4.437763	-1.194161	Co	-3.179199	-3.320301	-1.472747
Co	-2.194698	-1.581924	3.111276	Co	0.373404	1.827720	-1.485403
Co	-1.479250	4.412715	1.243449	Co	1.807694	-4.272712	-1.336850
Co	-0.720614	2.186745	0.616648	Co	-1.782252	4.264172	1.372983
Co	0.156032	-1.068914	3.990591	Co	3.824197	-1.577132	2.487739

Coordinates for Pt18Co37				Coordinates for Pt19Co36			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-2.004545	-3.090827	-2.087994	Pt	-1.933074	-2.969760	-2.384155
Pt	2.205246	-1.582688	3.186737	Pt	1.918038	-1.970958	3.271141
Pt	2.540966	1.031931	3.235956	Pt	2.368049	0.614235	3.499354
Pt	-3.065989	2.620318	1.629890	Pt	-3.013394	2.580459	1.584729
Pt	1.892089	3.291936	2.043192	Pt	1.921224	2.966804	2.402272
Pt	-0.622656	-4.125715	-0.096359	Pt	-0.753919	-4.186373	-0.357761
Pt	-0.713054	3.627357	2.273111	Pt	-0.673624	3.423624	2.458819
Pt	-4.244819	0.635949	0.362076	Pt	-4.203008	0.748476	0.107462
Pt	2.957840	-2.425698	-1.704828	Pt	3.012015	-2.580808	-1.586774
Pt	3.197436	-2.499019	0.922219	Pt	3.040857	-2.809605	1.039307
Pt	-1.076038	3.747476	-1.984896	Pt	-0.703179	3.808420	-1.795436
Pt	-2.638049	-0.833337	-3.296900	Pt	-3.792455	-1.366475	-1.410144
Pt	-2.282612	1.780324	-3.258380	Pt	-1.897491	1.976156	-3.276404
Pt	3.518790	1.793399	-1.596802	Pt	3.749245	1.594457	-1.191686
Pt	-1.997495	-1.011925	3.577277	Pt	-2.271654	-1.211177	3.375187
Pt	-1.618011	-3.202686	2.166815	Pt	-1.880303	-3.341412	1.879564
Pt	1.569287	-1.365999	-3.675533	Pt	1.834457	-1.362843	-3.607562
Pt	1.530470	3.404719	-2.215733	Pt	1.899045	3.346275	-1.851855
Co	-0.417208	0.209887	-4.147016	Pt	-0.040676	0.372207	-4.254213
Co	-0.739566	-2.300242	-4.162956	Co	-0.495621	-2.136834	-4.306344
Co	-1.559771	-1.739576	0.055605	Co	-1.985198	0.244782	1.294098
Co	1.446516	1.955215	-0.100527	Co	1.580049	1.777571	0.154205
Co	2.999197	3.844290	-0.177191	Co	3.224443	3.585704	0.310634
Co	1.842741	-0.128927	-1.455861	Co	-1.600926	-1.769649	-0.133999
Co	-2.157142	0.404209	-1.097658	Co	-0.002056	-0.000536	-0.003046
Co	-0.050341	2.695986	-4.090651	Co	1.979437	-0.246270	-1.302622
Co	-3.738482	-1.473037	-1.033515	Co	0.436280	2.861110	-3.896073
Co	0.294026	1.278672	2.014451	Co	-3.656753	-1.557278	1.194658
Co	-0.000608	-2.530761	4.021145	Co	0.234969	1.042700	2.129773
Co	-3.202631	2.623453	-0.968611	Co	-0.386202	-2.849487	3.883564
Co	-1.931665	0.330466	1.405182	Co	0.875217	-2.211796	-0.207412
Co	0.329596	-0.025690	4.087981	Co	0.051092	-0.374865	4.120681
Co	0.917976	-2.076965	-0.180813	Co	2.244683	1.191014	-3.281321
Co	1.903398	-4.305361	-0.335119	Co	1.769711	-4.477370	-0.415637
Co	1.881258	1.192579	-3.521713	Co	4.086425	-0.915820	2.393507
Co	4.245927	-0.482617	2.086889	Co	4.072543	-0.725418	-0.111174
Co	-1.020134	2.273736	0.113438	Co	0.698448	-3.701932	1.749589
Co	0.961693	-3.455291	1.861448	Co	-0.878292	2.210995	0.202865
Co	0.496991	4.214210	0.040054	Co	-2.948926	2.737429	-1.015953
Co	0.622865	2.469712	4.116166	Co	0.457335	2.094406	4.320968

Co	2.069002	-0.194040	1.027810	Co	4.023218	-0.482053	-2.626623
Co	3.785816	-0.349132	-2.931061	Co	0.647978	-3.334263	-2.384244
Co	0.585515	-3.332464	-2.271173	Co	2.012156	-0.459834	1.190869
Co	-3.507499	-1.544718	1.531847	Co	-4.065171	0.953818	-2.433295
Co	-4.332391	0.707104	-2.173355	Co	-1.773311	4.476436	0.410310
Co	-2.014228	4.499016	0.256810	Co	-0.246688	-1.055600	-2.128088
Co	3.636868	1.687808	0.976863	Co	3.666634	1.339194	1.373141
Co	-3.872587	0.551454	2.883095	Co	-4.012932	0.484741	2.641829
Co	-0.018261	-1.207256	1.963642	Co	-0.184167	-1.415497	1.908544
Co	-0.398661	-1.091138	-2.064767	Co	-2.302053	-0.597126	-3.401828
Co	-0.055153	1.391508	-2.031196	Co	-2.008164	0.470718	-1.203995
Co	-1.632431	1.542838	3.513087	Co	0.211825	1.409333	-1.918723
Co	-0.047482	0.099681	-0.029146	Co	-1.783946	1.319052	3.493107
Co	-3.125258	-3.606142	0.146421	Co	-3.253243	-3.591795	-0.266647
Co	4.038889	-0.442559	-0.416047	Co	0.731052	4.072722	0.362836

Coordinates for Pt20Co35				Coordinates for Pt21Co34			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-1.894205	-2.970838	-2.417874	Pt	-1.839028	-2.953585	-2.483819
Pt	1.953429	-1.986908	3.239865	Pt	2.046822	-2.033133	3.156264
Pt	2.369445	0.607430	3.500693	Pt	2.413814	0.562261	3.500061
Pt	-3.064455	2.517243	1.633334	Pt	-3.104721	2.389633	1.724725
Pt	3.764914	1.431231	1.417137	Pt	1.852991	2.961840	2.491700
Pt	-0.686844	-4.196773	-0.416066	Pt	3.779906	1.479227	1.404174
Pt	-0.702892	3.382238	2.494696	Pt	-0.579890	-4.202294	-0.529617
Pt	-4.221184	0.670531	0.129615	Pt	-0.770364	3.307612	2.606008
Pt	3.043299	-2.501734	-1.630075	Pt	-4.226576	0.557192	0.184037
Pt	3.086222	-2.779775	0.990316	Pt	3.092768	-2.388699	-1.738283
Pt	-0.792800	3.818343	-1.742345	Pt	3.171813	-2.731988	0.873614
Pt	-3.780564	-1.417824	-1.415709	Pt	-0.892128	3.837871	-1.634779
Pt	-1.956008	1.982685	-3.242018	Pt	-3.749349	-1.474610	-1.420911
Pt	3.718373	1.699272	-1.202575	Pt	-2.029159	2.017242	-3.171711
Pt	-2.260443	-1.320379	3.380540	Pt	3.677478	1.811179	-1.215974
Pt	-1.819374	-3.409189	1.835968	Pt	-2.182549	-1.473131	3.359698
Pt	-1.846300	1.280343	3.653043	Pt	-1.705160	-3.504615	1.753913
Pt	1.837535	-1.277415	-3.629236	Pt	-1.837076	1.126001	3.700657
Pt	1.814197	3.411966	-1.817167	Pt	1.834439	-1.140398	-3.689485
Pt	-0.073460	0.428530	-4.248463	Pt	1.722627	3.497050	-1.759479
Co	-0.478998	-2.086817	-4.332515	Pt	-0.123047	0.536014	-4.240473
Co	3.124341	3.656396	0.354267	Co	-0.469394	-1.984633	-4.388451
Co	0.646267	4.067028	0.403132	Co	3.086999	3.738214	0.385579
Co	-3.630958	-1.642982	1.183194	Co	0.568925	4.080356	0.506242
Co	0.355334	2.921156	-3.860876	Co	-3.566325	-1.767444	1.168034
Co	0.905656	-2.193646	-0.237893	Co	0.249056	3.026982	-3.793419
Co	2.197146	1.278488	-3.276088	Co	2.137593	1.411871	-3.275523
Co	-0.328694	-2.919391	3.846017	Co	0.879635	-3.743235	1.577594
Co	4.093338	-0.646877	-0.132207	Co	0.238013	0.972306	2.177336
Co	1.840040	-4.441536	-0.487546	Co	1.526921	1.838087	0.198663
Co	1.546685	1.799595	0.168681	Co	2.064342	-0.425170	1.145743
Co	0.762063	-3.714723	1.694646	Co	-0.205807	-3.034434	3.761225
Co	4.125707	-0.907236	2.390444	Co	0.006504	0.000596	0.002044
Co	2.026362	-0.446823	1.180255	Co	4.186474	-0.880505	2.314476
Co	-2.028058	0.447473	-1.188185	Co	1.949963	-4.384719	-0.633753
Co	0.477769	2.074861	4.342016	Co	-1.973180	0.105127	1.339959
Co	-3.011900	2.697253	-0.969500	Co	4.117330	-0.551474	-0.204597
Co	1.823674	2.871493	2.355291	Co	-3.074351	2.642461	-0.869461
Co	-1.994163	0.192331	1.319955	Co	0.473198	1.959384	4.419471
Co	-1.853197	4.441699	0.477242	Co	-1.521803	-1.831992	-0.188980

Co	0.169516	1.438597	-1.898403	Co	0.124877	1.489229	-1.865450
Co	4.013838	-0.372014	-2.649258	Co	1.978685	-0.107352	-1.340463
Co	1.978505	-0.186386	-1.307999	Co	-1.951228	4.376892	0.608435
Co	-4.099939	0.909869	-2.406751	Co	-2.039019	0.428300	-1.157022
Co	0.223938	1.014981	2.149255	Co	4.001883	-0.213832	-2.714667
Co	-0.929933	2.186613	0.236123	Co	-4.019028	0.190329	2.708825
Co	-4.045515	0.371019	2.666624	Co	-4.136394	0.870341	-2.344435
Co	-1.576252	-1.797543	-0.150708	Co	0.966013	-2.164378	-0.311917
Co	-0.008146	-0.002179	0.003016	Co	-0.964121	2.159638	0.309394
Co	-0.165507	-1.443733	1.899943	Co	-0.229520	-0.979828	-2.166694
Co	-2.310996	-0.594383	-3.400519	Co	0.752935	-3.207675	-2.533644
Co	-0.240604	-1.029749	-2.138396	Co	-0.098827	-1.499032	1.855858
Co	0.066398	-0.428414	4.134357	Co	0.130445	-0.544853	4.112743
Co	-3.196401	-3.649114	-0.307464	Co	-3.100229	-3.719885	-0.379773
Co	0.692626	-3.288428	-2.432185	Co	-2.323607	-0.561873	-3.395386

Coordinates for Pt22Co33				Coordinates for Pt23Co32			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	3.850542	1.865452	0.044195	Pt	-1.322523	3.948347	-1.005593
Pt	1.377477	-2.745066	-2.970106	Pt	-4.131575	1.009073	0.308001
Pt	-0.500256	4.147802	-0.998486	Pt	2.018221	1.542579	3.461346
Pt	-2.653961	0.472386	3.332941	Pt	0.573950	-2.171599	-3.657230
Pt	1.212167	2.332533	3.370419	Pt	-2.828093	-2.952141	1.310248
Pt	-2.912650	-1.997119	2.417225	Pt	0.260460	-0.280819	4.276042
Pt	-2.057645	-3.714773	0.574712	Pt	-1.028571	-4.163937	-0.205080
Pt	0.525499	-4.134254	0.980005	Pt	-3.792287	-0.328927	-1.937693
Pt	2.917122	-2.973902	1.009073	Pt	-0.559959	2.173054	3.654874
Pt	-1.363735	2.773898	2.972219	Pt	-0.967354	2.604426	-3.250373
Pt	1.528470	-0.211435	3.982719	Pt	3.818945	0.327559	1.950034
Pt	2.649812	-0.461168	-3.331545	Pt	4.164485	-1.015204	-0.323191
Pt	-1.250885	2.694609	-3.101755	Pt	1.174442	-3.789874	-1.650342
Pt	-3.430865	2.144568	1.415151	Pt	-1.164504	3.781363	1.641202
Pt	-3.303946	-1.004967	-2.507762	Pt	-0.245791	0.279445	-4.272681
Pt	0.869521	1.376482	-3.966698	Pt	-1.583974	-1.990637	3.454755
Pt	1.272285	-2.683495	3.084567	Pt	-3.551182	-0.598459	2.323794
Pt	-1.195448	-2.325287	-3.385053	Pt	3.178376	-2.249996	1.819241
Pt	4.173979	-0.677004	0.647097	Pt	2.832541	2.927246	-1.310129
Pt	2.072179	3.704471	-0.578875	Pt	3.541826	0.598535	-2.321329
Pt	-3.857887	-1.859583	-0.068444	Pt	-2.006519	-1.545396	-3.459307
Pt	-2.898155	2.989408	-1.036824	Pt	1.334610	-3.961603	1.000183
Co	2.893405	3.430663	1.817714	Pt	1.043263	4.153104	0.199783
Co	-0.402519	-3.870008	-1.441381	Co	2.904544	2.682073	1.285243
Co	0.567281	-1.045723	-4.720097	Co	-0.557656	-1.901780	-1.352839
Co	3.230398	0.991427	2.415999	Co	1.547919	1.921342	-3.341646
Co	1.113995	3.709728	-2.952164	Co	-3.377837	3.428590	0.418104
Co	2.232163	0.080995	-0.856694	Co	1.680476	-1.709127	-0.210304
Co	-0.826515	-1.326368	3.840896	Co	0.952877	-2.537154	3.156406
Co	4.520619	0.160935	-1.733178	Co	-0.406833	-2.064575	1.159766
Co	-2.238734	-0.069341	0.841884	Co	-4.613395	-1.515109	0.168042
Co	-1.722635	0.742403	-1.485508	Co	-2.266208	-0.750179	0.093832
Co	-4.041379	0.676524	-0.659190	Co	1.098035	-0.171525	-2.118456
Co	-1.469634	0.220635	-3.885235	Co	2.232961	-0.334589	-4.283592
Co	1.029820	-2.093364	-0.508506	Co	0.008083	-0.007386	0.004137
Co	2.831745	1.945263	-2.348996	Co	-0.821630	-4.176448	2.362311
Co	1.428868	1.696447	0.893270	Co	2.283809	0.731561	-0.080765
Co	0.280823	-0.511627	-2.323102	Co	-1.657216	1.697289	0.207106
Co	-0.288439	0.525477	2.314498	Co	-2.236319	0.352317	4.301994
Co	-0.528962	-1.826191	1.448508	Co	-2.891530	-2.688403	-1.287486

Co	-0.000396	0.005334	-0.002703	Co	-1.155892	-3.848910	-2.742180
Co	-0.571392	1.048403	4.708817	Co	1.350294	-0.433120	1.942404
Co	1.737118	-0.726442	1.473318	Co	0.856196	4.158984	-2.365814
Co	-1.074123	-3.697725	2.953722	Co	1.167817	3.845497	2.736290
Co	-1.019625	2.113940	0.501955	Co	-3.064032	2.166684	-1.762468
Co	-2.881124	-3.453601	-1.835677	Co	4.625666	1.510762	-0.172751
Co	3.331133	-2.057051	-1.393467	Co	0.420875	2.050262	-1.155055
Co	-4.547787	-0.140814	1.698030	Co	2.723799	-0.888248	3.938529
Co	0.425556	3.880592	1.428431	Co	0.571666	1.892788	1.353908
Co	-3.494044	1.476183	-3.006329	Co	-2.727452	0.879962	-3.923216
Co	0.538796	1.834667	-1.455368	Co	2.829274	-1.905262	-2.379876
Co	-1.422306	-1.697901	-0.897137	Co	-1.093008	0.164641	2.124707
Co	2.078948	-4.239816	-1.044214	Co	-2.818416	1.904702	2.370426
Co	-2.056685	4.286445	1.026558	Co	-1.333585	0.422115	-1.935836
Co	3.533893	-1.457284	2.997359	Co	3.405983	-3.455681	-0.445120

Coordinates for Pt24Co31				Coordinates for Pt25Co30			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-1.863152	-2.838609	-2.618705	Pt	-3.288664	2.696417	-0.539408
Pt	2.045237	-2.181737	3.085159	Pt	3.806832	1.473680	1.345160
Pt	2.417012	0.399104	3.531254	Pt	-4.245273	0.411532	0.434547
Pt	-3.095479	2.325216	1.859837	Pt	-0.495919	-4.185114	-0.826694
Pt	-3.177451	2.787027	-0.743615	Pt	0.514121	4.199551	0.820590
Pt	1.864257	2.840161	2.630830	Pt	-3.093179	2.168142	2.068295
Pt	0.754676	-3.190670	-2.763573	Pt	-1.693579	0.797013	3.882411
Pt	3.781525	1.400357	1.479269	Pt	-1.994617	-1.793343	3.351779
Pt	0.887613	-3.939684	1.458937	Pt	-1.541498	-3.689417	1.566750
Pt	-0.753568	3.192222	2.775698	Pt	-1.881580	-2.827649	-2.622747
Pt	3.096590	-2.323668	-1.847703	Pt	-2.550667	-0.383052	-3.426198
Pt	3.178546	-2.785484	0.755749	Pt	2.569756	0.366400	3.425539
Pt	-0.886509	3.941227	-1.446813	Pt	3.082391	-2.170034	-2.064370
Pt	-3.780424	-1.398808	-1.467135	Pt	1.913724	2.828428	2.634709
Pt	-2.044137	2.183286	-3.073027	Pt	4.256086	-0.424572	-0.438534
Pt	3.699565	1.862165	-1.124184	Pt	3.297355	-2.707863	0.530580
Pt	-2.200582	-1.610734	3.320118	Pt	0.359993	-0.878009	4.189856
Pt	-3.698450	-1.860625	1.136316	Pt	-0.344136	0.859522	-4.189401
Pt	-1.730212	-3.587624	1.603805	Pt	1.090825	-3.950449	1.293783
Pt	1.829919	-0.968558	-3.754087	Pt	1.696725	-0.812575	-3.860420
Pt	-1.828810	0.970106	3.766213	Pt	2.007113	1.778626	-3.353571
Pt	1.731319	3.589166	-1.591681	Pt	-0.731989	3.095611	2.912722
Pt	2.201694	1.612282	-3.307988	Pt	-1.078901	3.940818	-1.303727
Pt	-2.415908	-0.397554	-3.519126	Pt	-3.790463	-1.486204	-1.348288
Co	4.112139	-0.552177	-0.221464	Pt	1.556166	3.678539	-1.572074
Co	-0.485377	-1.755941	-4.505698	Co	1.921840	0.050248	-1.436440
Co	1.535274	1.822574	0.280901	Co	-3.893895	-0.133521	2.911546
Co	-1.534169	-1.821031	-0.268782	Co	3.470490	1.946138	-1.198306
Co	0.229394	3.205986	-3.648032	Co	-0.045242	3.319122	-3.557012
Co	0.114613	1.587271	-1.788342	Co	2.126879	-0.457657	1.022660
Co	-0.113509	-1.585730	1.800461	Co	0.646625	1.659144	4.559785
Co	-0.228290	-3.204448	3.660158	Co	-2.114843	0.451393	-1.020094
Co	0.584463	4.054267	0.706707	Co	-3.457745	-1.955416	1.198051
Co	4.184814	-0.995297	2.281576	Co	2.185784	-2.141744	2.821420
Co	0.000553	0.000775	0.006060	Co	0.716669	-2.987017	-2.802221
Co	0.962049	-2.156737	-0.406920	Co	-0.010635	1.636351	-1.747906
Co	1.979646	-0.050463	-1.346876	Co	3.902036	0.118613	-2.912504
Co	-0.239888	-0.873670	-2.213716	Co	0.022661	-1.642627	1.750472
Co	1.934033	-4.385129	-0.832805	Co	-2.171767	2.127140	-2.826690
Co	-0.128183	0.726105	-4.082957	Co	3.038296	3.770263	0.513821

Co	0.486484	1.757493	4.517825	Co	-1.912350	-0.047858	1.447518
Co	-4.111034	0.553723	0.233599	Co	-4.291443	0.927929	-2.088321
Co	-1.932928	4.386678	0.844924	Co	0.059410	-3.334412	3.551120
Co	4.027232	-0.107412	-2.723839	Co	-0.616341	-1.678383	-4.525542
Co	-1.978537	0.052008	1.359003	Co	-1.007359	2.121313	0.530315
Co	-4.026121	0.108957	2.735962	Co	-3.019666	-3.779259	-0.518408
Co	-2.056699	0.492368	-1.123508	Co	0.316287	0.824600	2.245982
Co	-4.183714	0.996843	-2.269453	Co	2.047964	-4.288466	-1.072159
Co	0.240994	0.875224	2.225833	Co	1.014871	-2.113352	-0.517646
Co	-3.099012	-3.708256	-0.554281	Co	-1.479107	-1.864953	-0.260109
Co	3.100118	3.709805	0.566400	Co	1.489438	1.867823	0.270897
Co	0.129289	-0.724553	4.095067	Co	-0.305825	-0.819534	-2.229486
Co	2.057800	-0.490822	1.135636	Co	-2.057239	4.307998	1.055127
Co	-0.583358	-4.052725	-0.694583	Co	4.305628	-0.943197	2.082427
Co	-0.960945	2.158281	0.419040	Co	0.004585	0.002881	0.006939

Coordinates for Pt26Co29				Coordinates for Pt27Co28			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	3.805131	1.975292	-0.376854	Pt	-1.726417	-2.634327	-2.945140
Pt	1.365372	2.710574	3.108953	Pt	0.191015	-1.191561	4.140382
Pt	1.187018	-2.966494	-2.789159	Pt	2.185950	-2.399423	2.838738
Pt	-3.413251	2.241817	1.491268	Pt	2.424874	0.156601	3.563795
Pt	-0.472893	-4.086603	-1.066605	Pt	1.728003	2.645458	2.911182
Pt	0.403458	4.195192	1.106117	Pt	-3.212908	1.972257	2.093196
Pt	-1.974981	-3.634545	1.078384	Pt	-3.323221	2.709666	-0.468077
Pt	-0.589855	-0.989379	4.149857	Pt	0.928188	-2.833092	-3.117249
Pt	0.646811	-3.984995	1.341709	Pt	-0.385190	-4.128918	-1.184377
Pt	3.343188	-2.169303	-1.450353	Pt	3.712127	1.435028	1.619276
Pt	-4.266906	0.606452	-0.401061	Pt	1.112297	-4.037167	1.026167
Pt	2.399691	-0.697246	-3.464393	Pt	3.331769	-2.672343	0.451570
Pt	4.203507	-0.533504	0.443770	Pt	-1.083164	4.028197	-1.030364
Pt	-1.580026	2.431020	-3.196489	Pt	-2.390966	-0.132394	-3.565357
Pt	0.511444	1.067161	-4.134109	Pt	-3.720431	-1.425900	-1.647461
Pt	1.503758	-2.352707	3.235208	Pt	-2.150307	2.400010	-2.841753
Pt	-1.849086	-0.129515	-3.865990	Pt	3.597981	2.165747	-0.915947
Pt	-3.844411	-1.887727	0.415346	Pt	2.112213	2.073946	-3.116439
Pt	-2.462107	0.760078	3.485817	Pt	-2.115097	-2.078232	3.128191
Pt	-1.272256	3.058252	2.843393	Pt	-3.610517	-2.168317	0.916963
Pt	-0.723311	4.070190	-1.303648	Pt	-1.546536	-3.839391	1.202318
Pt	-3.506680	-1.251794	-2.142612	Pt	-4.290587	0.333847	0.280131
Pt	1.913634	3.742737	-1.047718	Pt	3.217544	-1.937435	-2.086428
Pt	2.679747	1.875214	-2.797695	Pt	-1.871830	0.481769	3.853969
Pt	3.464625	1.334792	2.191836	Pt	1.544410	3.826730	-1.202427
Pt	1.786076	0.200501	3.928109	Pt	-0.903225	2.846516	3.086673
Co	3.727495	-1.135861	2.883759	Pt	1.875144	-0.455091	-3.839007
Co	4.406562	0.102900	-2.048953	Co	-0.166839	1.156642	-3.989840
Co	-1.060565	2.177458	0.418708	Co	4.137263	-0.303349	-0.274776
Co	-2.973554	-3.604089	-1.293919	Co	-0.395920	-1.274479	-4.685638
Co	0.756150	3.513901	-3.343659	Co	-0.198194	-0.648898	-2.303438
Co	-0.304905	1.519038	4.679075	Co	0.063538	3.591405	-3.293642
Co	1.434879	1.856240	0.662193	Co	-0.047552	-3.619801	3.295551
Co	-1.378025	-2.525812	-2.951707	Co	0.380199	3.984178	1.125273
Co	-0.022796	0.052624	0.020326	Co	4.248111	-1.007048	2.162327
Co	-3.795273	1.208865	-2.840128	Co	2.196089	-4.174843	-1.311841
Co	-4.440577	-0.044021	2.082951	Co	1.071247	-2.059366	-0.644475
Co	-0.419959	-1.654741	1.663462	Co	0.418228	1.322691	4.695594
Co	1.822934	-0.516925	1.441415	Co	-1.449082	-1.870321	-0.479013
Co	-0.842722	-3.405905	3.359020	Co	0.030208	1.772143	-1.613535

Co	0.214879	-1.449660	-4.607668	Co	-2.145919	4.178729	1.292094
Co	0.367706	1.751677	-1.636177	Co	-0.025550	-1.785634	1.624269
Co	2.902958	-2.705566	1.064155	Co	-1.988950	-0.195217	1.354011
Co	2.153307	0.083182	-1.002868	Co	4.026919	0.402281	-2.715213
Co	-0.157374	0.778473	2.312056	Co	1.438057	1.858772	0.471008
Co	-1.880167	0.611873	-1.392788	Co	-4.034564	-0.391338	2.744997
Co	2.936334	3.714408	1.324345	Co	-4.245785	1.038105	-2.206507
Co	-1.481119	-1.750567	-0.618591	Co	1.975635	0.198375	-1.342540
Co	-2.644723	-1.726838	2.724715	Co	-2.936820	-3.793256	-0.975790
Co	-2.973469	2.785452	-1.020064	Co	0.203214	0.640869	2.313413
Co	1.002523	-2.081750	-0.370372	Co	2.910023	3.790172	0.957417
Co	0.106956	-0.676452	-2.266321	Co	-1.077034	2.049564	0.636745
Co	2.075300	-4.276682	-0.757986	Co	2.083079	-0.502415	1.083758
Co	-2.201917	0.010343	1.031449	Co	-2.094395	0.506806	-1.077287
Co	-2.152083	4.358101	0.798418	Co	-0.006286	-0.006995	0.004536

Coordinates for Pt28Co27				Coordinates for Pt29Co26			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-1.750834	-2.747648	-2.824581	Pt	1.830393	3.516303	-1.703010
Pt	0.228815	-1.043408	4.182158	Pt	1.692773	3.013656	2.581571
Pt	2.213178	-2.294433	2.907292	Pt	2.091952	-1.188779	-3.582629
Pt	2.455215	0.284382	3.537873	Pt	2.200735	0.624911	3.660151
Pt	1.750161	2.747039	2.804244	Pt	-0.524974	-4.253996	-0.508316
Pt	-3.196391	2.041563	2.055421	Pt	-2.415395	-1.447758	3.273898
Pt	-3.332250	2.688530	-0.526858	Pt	-3.769554	-1.840286	1.009342
Pt	0.906310	-2.950165	-3.013078	Pt	-1.680462	-3.024295	-2.577169
Pt	-0.390312	-4.172928	-1.024952	Pt	0.829597	-3.840401	1.743054
Pt	3.724687	1.493807	1.540232	Pt	3.228142	-2.408182	-1.501636
Pt	1.126156	-3.997090	1.165581	Pt	-0.131551	-0.505592	4.283896
Pt	3.338854	-2.653178	0.523441	Pt	4.261006	-0.559401	0.077935
Pt	-1.097379	3.991065	-1.152090	Pt	1.862458	-1.991620	3.322624
Pt	-2.440389	-0.271287	-3.545566	Pt	0.143035	0.496001	-4.283514
Pt	-3.735310	-1.490899	-1.554942	Pt	-2.190359	-0.639402	-3.661753
Pt	-2.193661	2.310245	-2.908761	Pt	-1.859775	1.989805	-3.345124
Pt	3.590193	2.134269	-1.016098	Pt	-2.082196	1.180016	3.589845
Pt	2.100124	1.975344	-3.211384	Pt	-1.817351	-3.523104	1.705778
Pt	-2.084290	-1.967042	3.222824	Pt	-0.816222	3.857722	-1.749203
Pt	-3.599236	-2.138885	1.031416	Pt	-0.953780	3.356881	2.537044
Pt	-1.530785	-3.795528	1.357903	Pt	-4.278423	0.545580	-0.073233
Pt	-4.285800	0.338560	0.310306	Pt	3.692934	1.515932	1.641544
Pt	3.204173	-2.011821	-2.036449	Pt	-3.684994	-1.531880	-1.639845
Pt	-1.837859	0.615902	3.853984	Pt	-3.234871	2.413495	1.522689
Pt	1.532111	3.785411	-1.340286	Pt	0.540855	4.249359	0.515137
Pt	-0.879163	2.951904	2.995572	Pt	2.422891	1.441280	-3.271215
Pt	1.857811	-0.602162	-3.847188	Pt	3.777752	1.828732	-1.004511
Pt	-0.211185	1.051892	-4.180958	Pt	0.967224	-3.362974	-2.526924
Co	4.132634	-0.310323	-0.295173	Pt	-3.149330	2.721965	-1.126565
Co	-1.975377	-0.148836	1.378268	Co	0.992413	-2.173559	-0.225805
Co	-0.439100	-1.475772	-4.650632	Co	0.457674	3.019407	-3.833274
Co	0.033562	3.508788	-3.419546	Co	3.079843	3.773577	0.542493
Co	-0.014073	-3.499772	3.427902	Co	0.093454	1.010688	2.189777
Co	4.267920	-0.926440	2.163735	Co	0.193183	2.049893	4.447496
Co	0.385975	4.021990	0.987364	Co	-4.215827	0.228764	2.488924
Co	1.067710	-2.080361	-0.577387	Co	-0.090004	-1.013671	-2.188545
Co	2.191134	-4.221059	-1.172824	Co	-0.179953	-2.061324	-4.442766
Co	2.091876	-0.461679	1.083336	Co	-0.444543	-3.025042	3.831285
Co	0.457885	1.488136	4.645623	Co	2.046681	-4.405006	-0.431437
Co	1.962605	0.153922	-1.373756	Co	1.515256	1.859676	0.266402

Co	-2.140687	4.220067	1.169923	Co	-3.066615	-3.785008	-0.537761
Co	-1.450512	-1.887871	-0.396675	Co	4.221142	-0.239068	-2.480337
Co	0.013326	1.717985	-1.689257	Co	-0.228807	-1.482484	1.884758
Co	-1.073706	2.068980	0.574852	Co	-1.511802	-1.862655	-0.265167
Co	-0.009032	-1.725251	1.688913	Co	-1.994713	0.405918	-1.295360
Co	4.009151	0.305826	-2.754696	Co	3.035642	-2.623702	1.085897
Co	-4.009259	-0.297657	2.796995	Co	4.032969	-0.849632	2.606223
Co	-4.272002	0.953536	-2.196979	Co	0.224777	1.487384	-1.887859
Co	-2.941656	-3.832079	-0.805325	Co	1.983890	-0.398856	1.290474
Co	2.916333	3.823862	0.804599	Co	-4.050712	0.825115	-2.630162
Co	0.222579	0.721508	2.288035	Co	2.070663	-0.109428	-1.225901
Co	1.439788	1.874547	0.393901	Co	-2.076621	0.113168	1.225421
Co	-2.104906	0.467973	-1.083643	Co	-1.001508	2.183714	0.223564
Co	-0.006661	-0.005482	-0.001026	Co	-0.004565	0.003951	-0.001639
Co	-0.218455	-0.727978	-2.291581	Co	-2.034395	4.434240	0.453424

Coordinates for Pt30Co25				Coordinates for Pt31Co24			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-1.578192	-2.883518	-2.797178	Pt	-1.525807	-2.974937	-2.746061
Pt	-0.048806	-0.848014	4.231792	Pt	-0.148620	-0.707404	4.245373
Pt	2.007600	-2.159817	3.151872	Pt	1.942843	-2.063160	3.269125
Pt	-2.086571	0.787702	3.695311	Pt	-2.189090	0.929417	3.680246
Pt	2.216143	0.447272	3.676715	Pt	2.147775	0.561116	3.713598
Pt	1.578193	2.883519	2.797178	Pt	1.533511	2.978581	2.737758
Pt	-3.297173	2.646646	-0.868046	Pt	-3.266321	2.615774	-1.017626
Pt	1.081030	-3.093917	-2.808671	Pt	1.134352	-3.188235	-2.685186
Pt	-1.081030	3.093916	2.808671	Pt	-1.135348	3.175926	2.677818
Pt	-0.337427	-4.218359	-0.849214	Pt	-0.326298	-4.253499	-0.721172
Pt	3.634602	1.571715	1.717259	Pt	3.605126	1.619960	1.743670
Pt	1.032224	-3.941930	1.423121	Pt	0.995896	-3.905943	1.571727
Pt	3.297172	-2.646644	0.868044	Pt	3.273564	-2.625915	1.024545
Pt	-1.032225	3.941931	-1.423123	Pt	-0.988613	3.904210	-1.580942
Pt	-2.216143	-0.447271	-3.676716	Pt	-2.138037	-0.565463	-3.718678
Pt	-3.634597	-1.571714	-1.717257	Pt	-3.596606	-1.613750	-1.733979
Pt	-2.007603	2.159819	-3.151875	Pt	-1.932429	2.067517	-3.272731
Pt	3.664763	2.095815	-0.898133	Pt	3.695829	2.059251	-0.889179
Pt	2.295110	1.819386	-3.170467	Pt	2.373456	1.711647	-3.182385
Pt	-2.295113	-1.819388	3.170470	Pt	-2.397638	-1.741212	3.227921
Pt	-3.664762	-2.095816	0.898134	Pt	-3.743191	-2.094905	0.894527
Pt	-1.626999	-3.731534	1.434615	Pt	-1.669761	-3.667585	1.518734
Pt	-4.302711	0.340431	0.018596	Pt	-3.405752	2.226259	1.626403
Pt	3.327336	-2.122543	-1.747347	Pt	-4.366239	0.357126	-0.095264
Pt	0.337427	4.218359	0.849213	Pt	3.364200	-2.187490	-1.608449
Pt	1.626997	3.731531	-1.434614	Pt	0.337971	4.252918	0.719559
Pt	-3.327335	2.122543	1.747346	Pt	1.670830	3.681742	-1.521620
Pt	2.086569	-0.787703	-3.695311	Pt	-2.122903	-0.042612	1.230565
Pt	0.048805	0.848014	-4.231793	Pt	2.168498	-0.912981	-3.626919
Pt	4.302715	-0.340431	-0.018596	Pt	0.143806	0.710112	-4.258806
Co	0.248681	3.338763	-3.582129	Pt	4.308144	-0.350549	0.083569
Co	-0.154358	-1.699844	-4.596471	Co	0.340085	3.222168	-3.687905
Co	4.128686	-0.835422	2.509357	Co	2.103691	0.042308	-1.219565
Co	2.243616	-4.279633	-0.831725	Co	-0.055968	-1.849571	-4.546906
Co	1.104188	-2.106206	-0.409330	Co	0.036959	0.000784	-0.021495
Co	0.122386	1.643160	-1.762932	Co	4.078611	-0.762748	2.623105
Co	-0.248682	-3.338765	3.582131	Co	2.254568	-4.312386	-0.646488
Co	0.154357	1.699845	4.596471	Co	-1.092789	2.142119	0.305394
Co	2.060608	0.087348	-1.252657	Co	-1.998606	0.379376	-1.318279
Co	-2.243617	4.279633	0.831724	Co	-0.025252	-0.913284	-2.246762

Co	-1.104188	2.106205	0.409330	Co	-0.329085	-3.222986	3.682607
Co	4.186980	0.177486	-2.545296	Co	0.067108	1.850515	4.541905
Co	-0.075966	-0.836572	-2.262136	Co	-2.244226	4.314183	0.640130
Co	0.000000	-0.000001	-0.000000	Co	4.248648	0.085407	-2.462988
Co	-4.186981	-0.177486	2.545296	Co	-4.305942	-0.086477	2.496065
Co	-4.128684	0.835422	-2.509356	Co	-4.068902	0.763313	-2.630596
Co	-2.895747	-3.873006	-0.809513	Co	0.170326	1.591234	-1.822573
Co	-0.122389	-1.643161	1.762933	Co	-2.885279	-3.894913	-0.750242
Co	2.031918	-0.411149	1.234971	Co	-1.411024	-1.933085	-0.384822
Co	2.895747	3.873007	0.809513	Co	-0.142064	-1.599522	1.815755
Co	0.075967	0.836572	2.262136	Co	2.895395	3.893864	0.743404
Co	1.425132	1.906084	0.398400	Co	1.432184	1.922929	0.365690
Co	-2.031917	0.411152	-1.234972	Co	1.115730	-2.129466	-0.320663
Co	-1.425131	-1.906087	-0.398398	Co	2.016475	-0.376591	1.293921
Co	-2.060606	-0.087350	1.252659	Co	0.054616	0.919090	2.242333

Coordinates for Pt32Co23				Coordinates for Pt33Co22			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-3.916252	-1.727345	0.643992	Pt	1.883845	3.766206	-0.987969
Pt	1.654032	2.716366	2.961978	Pt	-3.864750	-1.950263	0.768662
Pt	0.982915	-3.217020	-2.790425	Pt	1.921049	2.390698	3.150359
Pt	-0.705289	-4.222897	-0.912743	Pt	0.746851	-2.741751	-3.238318
Pt	-2.688049	-1.597340	3.013871	Pt	-1.950527	0.430980	3.916672
Pt	-2.069270	-3.556680	1.294385	Pt	-0.704542	-4.094573	-1.424788
Pt	-1.650996	-2.705978	-2.908723	Pt	-2.336765	-2.057944	2.977606
Pt	0.409303	1.680106	-1.747189	Pt	-1.907664	-3.827774	1.000454
Pt	0.547117	-4.092002	1.500653	Pt	-1.915943	-2.382421	-3.159725
Pt	3.904327	1.747388	-0.602870	Pt	0.694543	4.029939	1.409411
Pt	3.275132	-2.460503	-1.543199	Pt	3.147750	-2.144616	-2.187284
Pt	-2.947936	2.968205	-1.048495	Pt	1.938420	-0.431416	-3.922631
Pt	-2.255725	0.979564	3.575623	Pt	-3.096499	2.110985	2.159785
Pt	0.938282	-2.248030	-0.336720	Pt	0.005530	-1.447813	4.146774
Pt	4.242119	-0.761018	0.297819	Pt	4.334800	-0.667959	-0.235136
Pt	1.563422	-2.357747	3.270985	Pt	1.924164	-2.721761	2.760831
Pt	0.431876	0.874932	-4.259716	Pt	0.001071	1.424080	-4.084266
Pt	-4.252162	0.767093	-0.251682	Pt	0.751782	-4.180175	0.832805
Pt	-1.988789	-0.197567	-3.809415	Pt	-2.361642	0.228120	-3.616607
Pt	2.245997	-0.962072	-3.520120	Pt	-1.630766	-1.765291	-0.614795
Pt	-0.970889	3.188771	2.793633	Pt	-4.269912	0.651291	0.230064
Pt	0.684756	4.167128	0.928110	Pt	-0.767126	2.803745	3.294423
Pt	3.008303	-2.997269	1.107880	Pt	3.861191	1.960461	-0.760558
Pt	-3.657092	-1.200510	-1.970289	Pt	3.112421	-2.985264	0.365557
Pt	-3.232069	2.442500	1.563293	Pt	-3.866329	-1.051582	-1.802334
Pt	2.724093	1.631451	-3.012490	Pt	-3.114592	2.994157	-0.370965
Pt	3.657567	1.213612	2.009740	Pt	2.374042	2.107175	-3.037510
Pt	-0.426869	-0.851061	4.244208	Pt	3.789273	1.042939	1.765060
Pt	1.989943	0.221930	3.857650	Pt	2.395702	-0.237954	3.673680
Pt	2.116161	3.627676	-1.270928	Pt	-1.928977	2.731238	-2.760914
Pt	-1.597430	2.402048	-3.291552	Pt	-0.759205	4.186410	-0.837175
Pt	-0.557360	4.109720	-1.444325	Pt	0.211510	0.526449	2.414896
Co	0.833190	3.379707	-3.557139	Pt	2.078730	0.112384	-1.349026
Co	-0.003777	1.666530	4.644248	Co	2.052879	-0.748323	1.100719
Co	-1.875689	4.488613	0.748742	Co	0.406660	3.786007	-3.111116
Co	-1.601765	-1.753130	-0.499187	Co	0.429217	1.053596	4.862889
Co	4.359160	-0.213540	-2.227983	Co	-0.195425	-1.886372	1.545733
Co	-1.920531	0.613997	-1.349148	Co	-4.130726	1.489268	-2.213017
Co	-3.852306	1.253420	-2.759214	Co	-0.014685	0.025085	-0.010045
Co	-0.001417	-1.652699	-4.600642	Co	-2.051877	0.754589	-1.100912

Co	2.170376	-0.098518	-1.086772	Co	0.189924	1.889346	-1.544639
Co	-0.825459	-3.310278	3.549077	Co	-0.938514	2.139583	0.730054
Co	-0.419940	-1.628665	1.783783	Co	-0.410202	-3.782095	3.110309
Co	-3.203444	-3.564961	-1.029086	Co	0.936286	-2.137333	-0.735555
Co	-0.939324	2.228223	0.398897	Co	-3.278749	-3.559016	-1.235004
Co	3.198415	3.580430	1.077199	Co	4.129350	-1.484261	2.211782
Co	-4.359871	0.228850	2.274029	Co	-4.125548	-0.210345	2.667744
Co	1.588551	1.772127	0.560206	Co	1.602437	1.759496	0.601380
Co	3.847278	-1.237948	2.807326	Co	-1.877290	4.292486	1.492848
Co	1.907317	-0.594992	1.410163	Co	4.187390	0.220202	-2.712801
Co	1.900422	-4.545437	-0.711471	Co	1.874836	-4.288813	-1.495852
Co	-2.161947	0.117068	1.138414	Co	-2.062891	-0.095824	1.326870
Co	-0.012433	-0.818928	-2.274469	Co	-0.217903	-0.504959	-2.392239
Co	-0.002483	0.829773	2.313407	Co	3.223639	3.509673	1.213096
Co	-0.024927	0.017401	0.059382	Co	-0.426243	-1.030690	-4.789282

Coordinates for Pt34Co21				Coordinates for Pt35Co20			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-3.327682	2.716251	-0.413279	Pt	-2.156850	-2.960666	-2.456053
Pt	3.717022	2.219535	-0.674568	Pt	-1.748452	1.404511	3.684851
Pt	2.229726	2.212561	-2.915889	Pt	0.088499	-0.434117	4.377862
Pt	-0.126460	-0.560240	-2.409405	Pt	-0.516999	3.523919	2.583006
Pt	3.737975	1.327011	1.898865	Pt	0.513485	-3.528169	-2.565838
Pt	2.054863	-0.300751	-3.858384	Pt	-0.941032	-4.197404	-0.400429
Pt	1.043406	-2.758693	-3.262505	Pt	0.600818	-3.970964	1.797923
Pt	0.028600	-1.457257	4.170648	Pt	1.927715	-2.145311	3.322632
Pt	-0.355919	-4.090332	-1.389231	Pt	2.468966	0.480614	3.531406
Pt	-3.711954	-2.273089	0.704461	Pt	2.106698	2.918536	2.438380
Pt	-2.291499	-2.315700	3.029024	Pt	-2.532236	-0.493891	-3.576817
Pt	1.478092	1.872701	0.664071	Pt	-3.914396	-1.227693	-1.391316
Pt	-1.671536	-2.552548	-3.169556	Pt	-4.233360	0.928722	0.183027
Pt	1.084104	-4.209119	0.879811	Pt	-0.241218	-1.482163	1.987052
Pt	-3.359948	1.888468	2.144580	Pt	3.519330	3.609187	0.295432
Pt	3.299722	-1.888794	-2.080701	Pt	-2.976947	2.752783	1.706938
Pt	2.289930	-0.078504	3.678814	Pt	-3.032501	3.024842	-1.002455
Pt	-1.029000	2.662001	3.242154	Pt	-0.821505	2.339004	0.253051
Pt	4.318363	-0.344257	-0.129524	Pt	-1.897933	2.100209	-3.261096
Pt	2.120853	-2.637125	2.865673	Pt	3.928958	1.219487	1.387392
Pt	-2.075343	2.549496	-2.787890	Pt	-2.374895	-1.203984	3.503330
Pt	-0.036123	1.425816	-4.133493	Pt	3.942337	1.525701	-1.298006
Pt	1.626036	3.946103	-0.949676	Pt	2.019401	3.334588	-1.884187
Pt	-1.638561	-3.985128	0.977250	Pt	-0.355826	-1.064635	-2.225151
Pt	-2.338259	0.033610	-3.707421	Pt	-2.056757	-3.388491	1.910009
Pt	-4.396697	0.316473	0.158717	Pt	2.353668	1.201336	-3.507725
Pt	-2.116640	-0.269471	1.317956	Pt	2.956860	-2.765766	-1.700782
Pt	3.315823	-2.769411	0.460792	Pt	2.969699	-2.977232	0.985465
Pt	-2.044794	0.254779	3.897856	Pt	-3.864134	-1.495665	1.284016
Pt	1.661465	2.501191	3.214709	Pt	-0.608246	3.964453	-1.807630
Pt	-0.068679	-1.960510	1.587402	Pt	0.951491	4.288090	0.410920
Pt	-1.056701	4.094035	-0.836711	Pt	2.059307	-0.310605	-1.371579
Pt	0.356309	4.119312	1.453946	Pt	-0.089344	0.440364	-4.369458
Pt	-3.674853	-1.349834	-1.825898	Pt	1.785858	-1.446807	-3.777274
Co	0.078666	1.884599	-1.533283	Pt	4.302832	-0.949528	-0.169505
Co	-4.192090	1.146867	-2.283538	Co	0.236381	1.471581	-1.965655
Co	0.007122	-0.013501	0.006591	Co	0.467172	2.930679	-3.926021
Co	2.969713	3.782965	1.315596	Co	-0.006266	0.007941	0.016901
Co	2.233179	-4.158596	-1.438182	Co	-1.724409	-1.750840	-0.133189
Co	0.179239	3.786435	-3.091269	Co	-0.666874	-2.134196	-4.472946

Co	2.077757	0.233915	-1.270268	Co	1.720176	1.764781	0.154792
Co	-4.224316	-0.556678	2.645651	Co	4.135895	-1.154102	2.407046
Co	2.099325	-0.605058	1.157949	Co	-2.024277	0.312435	1.366203
Co	4.149691	0.507958	-2.568883	Co	1.615594	-4.623669	-0.492477
Co	-1.467920	-1.900122	-0.622611	Co	0.332594	1.050841	2.202646
Co	1.123269	-2.085026	-0.711659	Co	-0.484645	-2.979392	3.987903
Co	0.245886	1.042238	4.817610	Co	-2.077504	0.572250	-1.187618
Co	-2.092685	0.570439	-1.134778	Co	0.640296	2.094277	4.409085
Co	0.122437	0.511292	2.423670	Co	-1.655419	4.692638	0.505331
Co	-0.180208	-3.895972	3.177724	Co	4.099725	-0.650235	-2.789053
Co	-2.927117	-3.768901	-1.260186	Co	-4.036720	0.632393	2.747873
Co	-0.252517	-1.102816	-4.856493	Co	-4.145586	1.147945	-2.395008
Co	4.192521	-1.187699	2.314880	Co	2.067773	-0.566476	1.209436
Co	-1.116624	2.050414	0.734838	Co	0.809359	-2.316331	-0.245809
Co	-2.232750	4.117762	1.469520	Co	-3.436555	-3.515774	-0.276828

Coordinates for Pt36Co19				Coordinates for Pt37Co18			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	1.721969	3.900850	-1.131056	Pt	-3.019446	-4.024948	-0.478595
Pt	0.712922	4.110208	1.397685	Pt	-4.285099	0.694160	-2.588089
Pt	0.549277	-2.780186	-3.394943	Pt	-2.031712	1.083272	3.648841
Pt	-0.732417	-4.102865	-1.388467	Pt	0.001643	-0.522370	4.370095
Pt	-2.059907	-2.184011	3.218134	Pt	-1.045486	3.367406	2.633782
Pt	-1.690260	-3.817826	1.113135	Pt	1.056703	-3.367582	-2.614960
Pt	-2.120085	-2.425129	-2.986748	Pt	-0.115899	-1.548591	1.948178
Pt	0.939981	-4.241589	0.763616	Pt	-0.374463	-4.285876	-0.515889
Pt	2.225816	-2.705997	2.567381	Pt	1.053334	-3.901215	1.744582
Pt	3.275947	-2.971062	0.091739	Pt	2.125330	-0.011740	-1.300734
Pt	3.002342	-2.043064	-2.471853	Pt	2.086835	-1.112866	-3.736346
Pt	-1.611589	0.360254	4.079747	Pt	-0.142989	-1.047923	-2.259516
Pt	1.616494	-0.367515	-4.068046	Pt	-3.696200	-1.691660	-1.566018
Pt	4.252768	-0.547631	-0.602005	Pt	2.077696	-1.958190	3.348333
Pt	2.672318	-0.182315	3.427208	Pt	2.270810	0.708172	3.628561
Pt	-3.218617	2.906687	-0.070992	Pt	1.636122	3.104387	2.572295
Pt	4.458004	-1.425261	1.900476	Pt	-2.326507	-0.724250	-3.693367
Pt	-2.727731	0.192831	-3.460777	Pt	-1.671973	-3.163425	-2.602611
Pt	-3.735152	-2.065009	1.075625	Pt	-4.333633	0.385326	0.053589
Pt	1.634463	1.817488	0.489103	Pt	3.019193	4.020932	0.496284
Pt	3.734675	2.059146	-1.080669	Pt	-3.366117	2.655390	-1.049887
Pt	-0.544754	2.706649	3.314522	Pt	-3.356055	2.314211	1.659931
Pt	-1.961144	-0.169213	1.525431	Pt	-1.123155	2.209536	0.269833
Pt	0.949211	-2.152679	-0.826684	Pt	-2.041590	1.932164	-3.295772
Pt	-3.911432	-1.132333	-1.445164	Pt	3.693471	1.677587	1.554268
Pt	-4.323061	0.552224	0.611492	Pt	-2.312045	-1.576493	3.398484
Pt	2.024323	2.146667	-3.168691	Pt	3.757160	2.046965	-1.121311
Pt	-0.405496	1.479944	-4.148456	Pt	1.641278	3.610373	-1.740868
Pt	3.990708	1.157835	1.482039	Pt	-1.666421	-3.679429	1.781540
Pt	2.110387	2.420615	3.007252	Pt	2.301089	1.578791	-3.393098
Pt	-3.011357	2.052624	2.467531	Pt	3.346902	-2.321344	-1.644611
Pt	-2.237384	2.690196	-2.573229	Pt	3.295613	-2.593853	1.034638
Pt	0.379287	-1.443313	4.072986	Pt	-3.690073	-2.011802	1.125101
Pt	-0.938582	4.183413	-0.731758	Pt	-1.042425	3.903351	-1.745805
Pt	0.039361	3.917055	-3.188830	Pt	0.383657	4.363616	0.532702
Pt	-0.423053	-0.493568	-2.407226	Pt	0.010814	0.534207	-4.360225
Co	0.798679	1.022290	4.750636	Pt	4.393342	-0.386107	-0.030874
Co	-0.826593	-1.039461	-4.822344	Co	0.226668	3.065403	-3.846339
Co	-1.620145	-1.796723	-0.479044	Co	-0.012799	0.004987	0.015126
Co	0.013295	1.920710	-1.552044	Co	1.473686	1.965420	0.253388

Co	-0.051666	-3.812631	3.117296	Co	-0.225965	-2.090754	-4.539542
Co	-2.173630	0.705665	-0.916365	Co	4.169680	-0.672878	2.533208
Co	2.176187	-0.694318	0.939139	Co	0.110976	1.538478	-1.926811
Co	3.278651	3.648143	0.983265	Co	2.219216	-4.364451	-0.522537
Co	-0.018268	-1.900260	1.566131	Co	-1.487485	-1.961755	-0.231575
Co	-3.234344	-3.587490	-0.957353	Co	0.123126	1.031616	2.233314
Co	-0.000489	0.013028	0.014445	Co	-0.224086	-3.108068	3.914639
Co	1.945229	0.170876	-1.509183	Co	-2.095465	0.018797	1.299134
Co	3.877336	0.336093	-3.013246	Co	0.223113	2.053542	4.471891
Co	0.408624	0.501410	2.376766	Co	-2.251899	4.435671	0.544076
Co	-3.940812	-0.342829	3.061987	Co	1.107561	-2.188457	-0.261629
Co	-4.353243	1.388149	-1.837172	Co	4.242608	-0.052249	-2.647933
Co	1.878805	-4.310395	-1.706319	Co	-4.171015	0.051124	2.620412
Co	-0.932065	2.122354	0.832597	Co	-2.102984	0.333507	-1.256887
Co	-1.858920	4.235426	1.689673	Co	2.081090	-0.325839	1.272759

Coordinates for Pt38Co17				Coordinates for Pt39Co16			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-2.930905	-4.088707	-0.494899	Pt	3.443855	2.268635	-1.359655
Pt	-4.338803	0.627144	-2.516767	Pt	0.497045	4.215290	1.188576
Pt	-2.005097	0.983807	3.690881	Pt	0.535618	-2.804508	-3.296789
Pt	0.071837	-0.582903	4.362360	Pt	-0.505282	-4.198980	-1.223327
Pt	-1.088929	3.305177	2.695397	Pt	-1.693716	-2.169775	3.349442
Pt	1.096164	-3.304221	-2.680627	Pt	-1.364995	-3.941070	1.350801
Pt	-0.281554	-4.285255	-0.574586	Pt	-2.125404	-2.663002	-2.807685
Pt	1.166299	-3.902447	1.670148	Pt	1.271486	-4.034707	0.804840
Pt	-0.049251	-1.578833	1.927973	Pt	2.982478	-1.885086	-2.561149
Pt	2.055632	-1.008597	-3.783893	Pt	-3.032913	1.940944	2.580446
Pt	-3.678115	-1.757401	-1.537798	Pt	-1.051596	2.108981	0.853261
Pt	2.173914	-1.964384	3.301615	Pt	4.317628	-0.241996	-0.870612
Pt	2.310358	0.716121	3.617466	Pt	0.741233	-1.254829	4.081498
Pt	-0.150361	-1.018763	-2.271497	Pt	-0.761989	1.304532	-4.179710
Pt	1.595242	3.111457	2.590494	Pt	2.592772	-2.453917	2.540688
Pt	-2.362894	-0.727784	-3.669640	Pt	-2.873457	-0.105131	-3.258931
Pt	-1.635391	-3.164595	-2.624883	Pt	2.293150	-0.494457	0.807705
Pt	-4.340923	0.280178	0.120300	Pt	-1.041036	-1.265806	-4.792489
Pt	1.525287	3.675012	-1.714810	Pt	3.470512	-2.705053	-0.028020
Pt	2.924951	4.091627	0.505872	Pt	-3.765919	-0.502983	3.326518
Pt	-3.444009	2.587556	-0.963692	Pt	-0.556120	2.871614	3.325087
Pt	-3.386597	2.209298	1.739279	Pt	1.352007	3.975567	-1.356115
Pt	-1.170651	2.177378	0.317546	Pt	3.757526	0.537281	-3.349819
Pt	-2.136628	1.928441	-3.238636	Pt	-3.974621	-1.466671	-1.204947
Pt	3.684528	1.754251	1.525997	Pt	-1.527623	-1.930135	-0.340998
Pt	-2.225829	-1.678781	3.406243	Pt	-3.466820	2.725844	-0.003146
Pt	2.107867	0.058307	-1.331790	Pt	1.715823	2.235584	-3.434768
Pt	3.687227	2.157853	-1.152017	Pt	3.958906	1.514395	1.180238
Pt	-1.554191	-3.742521	1.750251	Pt	2.914740	0.146945	3.294879
Pt	2.209776	1.682161	-3.404762	Pt	-2.611587	2.486221	-2.547752
Pt	3.374081	-2.217755	-1.732722	Pt	-1.312929	4.161199	-0.842414
Pt	3.380354	-2.538677	0.949231	Pt	2.108350	-4.251372	-1.707919
Pt	-3.625806	-2.115156	1.147271	Pt	2.068640	2.653466	2.732019
Pt	-1.163394	3.901022	-1.675492	Pt	-3.521143	-2.271372	1.359953
Pt	0.284099	4.365696	0.587675	Pt	1.373230	-0.357819	-4.129050
Pt	-0.068140	0.595693	-4.352670	Pt	-0.203547	1.870667	-1.669636
Pt	4.414725	-0.278951	-0.107267	Pt	-4.247914	0.279987	0.832970
Pt	4.332846	-0.624225	2.527736	Pt	-1.391048	0.415278	4.099169
Co	1.431916	1.998370	0.259745	Pt	1.028257	1.298456	4.767868
Co	0.093957	3.124061	-3.806521	Co	-2.281762	0.519094	-0.824645

Co	-0.244376	-2.030688	-4.566257	Co	1.031072	-2.065026	-0.857263
Co	-0.009107	0.004473	0.016773	Co	0.410679	-3.676957	3.220897
Co	-1.443456	-1.992703	-0.238509	Co	0.197743	-1.824503	1.613915
Co	0.045582	1.567505	-1.906197	Co	0.001569	-0.002919	-0.010236
Co	2.311692	-4.304392	-0.621661	Co	-1.836048	-0.243708	1.627577
Co	0.133134	1.003215	2.247219	Co	-0.429756	3.772206	-3.293830
Co	-0.099477	-3.169448	3.871817	Co	1.833919	0.255996	-1.649923
Co	-2.075483	-0.050195	1.328152	Co	-0.499138	-0.620663	-2.351348
Co	0.235357	1.998247	4.496894	Co	4.608298	-1.004239	1.638764
Co	-2.350856	4.371715	0.638642	Co	3.004253	3.863437	0.637452
Co	2.116519	-0.294753	1.242897	Co	1.505291	1.942101	0.313918
Co	1.157801	-2.157955	-0.308955	Co	-4.547371	1.025873	-1.632916
Co	4.200797	0.089468	-2.716493	Co	-3.066789	-3.888197	-0.668723
Co	-4.133625	-0.085552	2.678851	Co	0.495415	0.632353	2.328522
Co	-2.128056	0.300417	-1.221656	Co	-2.098252	4.239793	1.671469

Coordinates for Pt40Co15				Coordinates for Pt41Co14			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	1.895456	3.714187	-1.485832	Pt	1.868268	1.509125	0.675824
Pt	1.656609	2.886390	2.822696	Pt	2.498746	3.511638	-0.931769
Pt	0.998417	-3.222032	-2.754587	Pt	2.084913	2.134458	3.229176
Pt	-2.165356	0.077179	1.230852	Pt	0.504577	-2.947671	-3.247093
Pt	-0.540691	-4.309700	-0.813465	Pt	-2.106825	-2.140460	-3.235228
Pt	-1.541580	-1.900534	-0.453974	Pt	-1.218731	-3.922108	-1.400347
Pt	-1.901429	-3.667663	1.469367	Pt	2.630694	-3.437015	0.566298
Pt	-2.530433	-1.673375	3.168311	Pt	-2.816013	-1.684456	2.955780
Pt	0.780344	-3.969306	1.516567	Pt	-2.510743	-3.509375	0.942579
Pt	-1.685744	-2.907934	-2.882852	Pt	-0.400889	-1.358166	4.169999
Pt	3.192150	-2.850293	1.032988	Pt	0.100196	-4.316448	0.930721
Pt	3.303323	-2.334604	-1.625101	Pt	2.880587	-2.596208	-2.002683
Pt	0.267425	1.668493	-1.855050	Pt	-0.174416	-0.528501	-2.432168
Pt	-0.113134	-1.815961	-4.724549	Pt	4.168085	-1.274794	-0.010028
Pt	2.034112	-0.494275	1.337779	Pt	1.398683	-2.987270	2.936639
Pt	4.372912	-0.560949	0.114161	Pt	0.405642	1.373638	-4.176002
Pt	1.821342	-2.237475	3.305238	Pt	-4.160322	1.299622	0.027797
Pt	0.525678	4.270871	0.778840	Pt	-2.166197	0.530196	-3.809482
Pt	2.104838	-4.531191	-0.716141	Pt	-3.868888	2.096031	-2.495372
Pt	-2.139368	-0.395011	-3.760042	Pt	-3.749454	-3.103781	-1.376718
Pt	4.396942	-0.072060	-2.501351	Pt	-4.350819	0.445823	2.542875
Pt	-4.362046	0.568863	-0.141841	Pt	1.241885	3.996443	1.439292
Pt	-1.036301	3.229139	2.741205	Pt	4.355977	-0.446380	-2.532723
Pt	3.154974	3.865661	0.853217	Pt	1.332435	-4.674651	-1.399804
Pt	-2.120744	4.549260	0.698022	Pt	-3.859644	-0.512719	-1.972068
Pt	3.808495	1.913027	-0.831070	Pt	-2.924669	2.628676	2.035115
Pt	-3.733044	-1.425418	-1.840783	Pt	4.170417	1.364364	-0.595050
Pt	-3.151046	2.812567	-1.027483	Pt	3.914624	0.514559	2.004058
Pt	2.533702	1.690611	-3.209735	Pt	2.125663	-0.513854	3.744576
Pt	3.734668	1.462635	1.838063	Pt	-1.379691	2.949730	-2.878770
Pt	2.161930	0.416070	3.815622	Pt	-0.489925	2.930367	3.240864
Pt	-1.845482	2.251428	-3.321582	Pt	-2.677841	3.481248	-0.563952
Pt	-0.231337	-0.761718	4.249119	Pt	1.141867	3.741145	-3.208045
Pt	-0.816058	4.061703	-1.566310	Pt	3.864396	-2.093609	2.505563
Pt	0.214162	0.795345	-4.348948	Pt	-4.106516	-1.354459	0.596899
Pt	0.097230	1.834027	4.706427	Pt	2.055860	-0.774892	-3.828655
Pt	-3.357084	2.391133	1.631456	Pt	2.779634	1.664035	-2.897658
Pt	-3.891134	-1.928257	0.827332	Pt	-0.685121	2.298411	0.687416
Pt	2.172396	-0.950125	-3.668965	Pt	-0.088923	4.311518	-0.920021
Pt	-2.212032	0.989365	3.700838	Pt	-2.013718	0.765683	3.763374

Co	-0.266556	-1.627859	1.816637	Pt	-0.563049	-1.844761	1.582650
Co	0.017301	0.021634	-0.014499	Co	-1.899662	1.014471	-1.219807
Co	-0.537527	-3.262170	3.634741	Co	-1.127942	-3.695774	3.185753
Co	1.038235	-2.203895	-0.366916	Co	0.171177	0.518385	2.407761
Co	-3.132763	-3.801586	-0.861270	Co	0.664070	-2.285032	-0.683600
Co	2.147765	-0.039979	-1.235084	Co	0.343913	1.041951	4.806201
Co	1.534876	1.903224	0.420341	Co	1.891591	-1.034938	1.213316
Co	-4.360023	0.089504	2.453571	Co	0.558556	1.830090	-1.574774
Co	0.528340	3.335679	-3.715451	Co	3.709183	3.069735	1.373310
Co	-0.040209	-0.883663	-2.315935	Co	-0.006131	-0.019704	-0.008279
Co	-4.027785	1.010579	-2.672980	Co	-1.843311	-1.509971	-0.672209
Co	-2.016758	0.514727	-1.346388	Co	-2.135518	0.209891	1.231611
Co	4.079047	-1.011085	2.701530	Co	-0.348830	-1.056742	-4.881177
Co	-1.024407	2.236794	0.342401	Co	2.130578	-0.231327	-1.238109
Co	0.054038	0.916561	2.291412	Co	-1.318428	4.623833	1.396142

Coordinates for Pt42Co13				Coordinates for Pt43Co12			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	2.137626	3.750429	-0.931789	Pt	1.907428	3.885453	-0.900710
Pt	1.680428	2.451990	3.266070	Pt	1.643414	2.440326	3.237965
Pt	0.995267	-2.952751	-3.129554	Pt	1.047048	-2.824537	-3.224304
Pt	-0.708751	-4.142384	-1.358465	Pt	-0.079245	-1.115134	-4.920106
Pt	-2.758678	-1.934287	2.872841	Pt	-0.539170	-4.146752	-1.418429
Pt	-2.107352	-3.690267	0.919479	Pt	-2.553384	-2.122581	2.921295
Pt	-1.930520	0.780053	-1.375691	Pt	3.823617	2.015303	-0.503409
Pt	-1.656890	-2.410948	-3.216601	Pt	-1.628420	-2.437799	-3.207565
Pt	0.538075	-4.251181	1.068308	Pt	0.800087	-4.222982	0.969968
Pt	3.296436	-2.325057	-1.797897	Pt	3.351499	-2.096219	-1.934752
Pt	3.013673	-3.128115	0.798409	Pt	3.214422	-2.988995	0.642654
Pt	1.564889	-2.711080	3.043233	Pt	4.383123	-0.582245	0.069563
Pt	0.439382	1.283492	-4.143031	Pt	1.823856	-2.715574	2.983239
Pt	4.261436	-0.797526	0.217429	Pt	-4.376231	0.590380	-0.052241
Pt	3.950935	-1.572498	2.742487	Pt	4.164378	-1.423583	2.623224
Pt	-2.016915	0.172343	-3.937929	Pt	-2.123203	0.164841	-3.797392
Pt	4.002006	1.815134	-0.440453	Pt	-4.116265	1.424582	-2.564864
Pt	4.501338	-0.009342	-2.311228	Pt	-1.045535	2.801158	3.201624
Pt	0.872410	3.760596	-3.271461	Pt	0.523719	4.109239	1.415066
Pt	-0.983378	2.905069	3.081889	Pt	-1.877247	-3.810194	0.910107
Pt	1.998712	-0.165451	3.877865	Pt	3.151516	3.702412	1.441608
Pt	-1.924822	4.526059	1.190318	Pt	1.027120	-2.162363	-0.673360
Pt	-3.717733	-1.012692	-2.143774	Pt	-3.692060	-1.142902	-2.011290
Pt	-4.344655	0.813099	-0.221674	Pt	-3.144102	2.935609	-0.604597
Pt	2.728633	1.907545	-2.824167	Pt	2.555182	2.135755	-2.894687
Pt	3.719241	1.012076	2.155849	Pt	3.750232	1.189411	2.079647
Pt	-3.013241	3.121169	-0.788412	Pt	2.156900	-0.138744	3.893634
Pt	-0.532908	4.184398	-1.054191	Pt	-1.824621	2.717320	-2.957187
Pt	-1.578319	2.745954	-3.094128	Pt	-3.351515	2.118064	1.966748
Pt	-0.018452	1.230534	4.908265	Pt	4.415773	0.289222	-2.445786
Pt	1.628667	1.749146	0.718400	Pt	0.248894	1.414197	-4.165095
Pt	0.703313	4.143403	1.358189	Pt	0.072078	1.135488	4.947477
Pt	-3.293631	2.324865	1.786039	Pt	-0.799627	4.245235	-0.938511
Pt	2.294806	-0.638079	-3.658800	Pt	-3.882445	-2.029548	0.538333
Pt	0.950245	-2.231792	-0.586825	Pt	2.188785	-0.420885	-3.718969
Pt	-3.998121	-1.808994	0.430675	Pt	-2.176535	-0.129478	1.223814
Pt	-2.320085	0.639317	3.716649	Pt	-2.225299	0.440546	3.804299
Pt	-2.207180	-0.005679	1.164577	Pt	-2.120608	4.398717	1.365674
Pt	-0.869142	-3.761208	3.271625	Pt	-0.565955	-3.863382	3.225801
Pt	-0.462921	-1.279090	4.141831	Pt	-0.245557	-1.376632	4.129256

Pt	-3.300816	-3.548082	-1.456944	Pt	-3.156112	-3.679901	-1.417169
Pt	0.021714	-1.231149	-4.908098	Pt	2.035127	-0.668162	1.306075
Co	0.022660	-0.598182	-2.401953	Pt	0.276848	1.915582	-1.569305
Co	2.197441	-0.000283	-1.141330	Co	1.535350	1.819858	0.718704
Co	1.903247	-4.480227	-1.178491	Co	-0.276005	-1.887776	1.589364
Co	3.265436	3.512906	1.442212	Co	-2.012271	0.690371	-1.254349
Co	0.437064	1.833490	-1.604683	Co	0.555893	3.836896	-3.166060
Co	-0.413827	-1.837833	1.605870	Co	2.164874	0.146863	-1.189515
Co	-0.939344	2.217976	0.583738	Co	2.093681	-4.339383	-1.330489
Co	-3.907986	1.556555	-2.716179	Co	-0.050157	-0.539358	-2.399206
Co	1.925924	-0.771402	1.351711	Co	-1.548301	-1.788163	-0.693603
Co	0.021142	-0.003962	0.001073	Co	-4.370580	-0.269651	2.442606
Co	0.000573	0.593833	2.403135	Co	0.035595	0.569710	2.426141
Co	-1.613886	-1.740139	-0.714008	Co	-0.011887	0.021249	0.012808
Co	-4.453163	0.008224	2.289573	Co	-1.027899	2.157313	0.684360

Coordinates for Pt44Co11				Coordinates for Pt45Co10			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	4.092191	1.347402	1.072061	Pt	2.019802	3.740901	-1.218502
Pt	0.642527	-0.783804	4.330007	Pt	1.469083	2.825139	3.096510
Pt	-1.871743	-1.630526	3.690314	Pt	1.224791	-3.132696	-2.775980
Pt	-0.367094	3.275671	2.930459	Pt	-0.478037	-4.231177	-0.972405
Pt	0.373741	-3.339711	-2.885208	Pt	-2.780162	-1.780718	2.953294
Pt	1.679405	1.829285	0.102376	Pt	-2.016645	-3.754925	1.207448
Pt	1.823452	-4.619205	-1.054598	Pt	-1.451418	-2.777515	-3.042328
Pt	-0.772655	-4.249642	-0.601332	Pt	0.688099	-4.120644	1.473304
Pt	1.844410	1.562299	-3.579172	Pt	1.508812	1.895221	0.621453
Pt	2.846979	-2.454528	-2.219563	Pt	-2.154913	4.525927	0.707640
Pt	1.392061	-1.072101	-4.045506	Pt	0.244892	-1.674501	-4.772387
Pt	2.426427	-2.302388	2.929066	Pt	4.350857	-0.587159	0.428419
Pt	-0.545092	-0.937371	-2.238247	Pt	1.596514	-2.375089	3.381605
Pt	-4.022172	-1.381206	-1.000724	Pt	0.544313	0.910259	-4.218752
Pt	3.392207	3.804743	0.197998	Pt	3.921265	-1.138183	2.994814
Pt	1.096758	1.821362	4.611304	Pt	-1.885276	-0.277524	-3.999072
Pt	-4.581568	1.090151	-1.818129	Pt	-3.960295	1.148638	-3.033402
Pt	2.867668	0.345253	3.275042	Pt	-4.576437	0.017117	2.164082
Pt	-2.925790	-0.397541	-3.278373	Pt	-1.202414	3.141980	2.771971
Pt	-2.295950	-2.922303	-2.411318	Pt	2.154745	-4.526708	-0.711014
Pt	-3.623621	-1.849354	1.640365	Pt	2.767157	1.777971	-2.939375
Pt	1.633580	3.638410	-1.839962	Pt	3.131211	3.855474	1.235162
Pt	-1.368137	1.008065	4.023750	Pt	-3.605488	-1.382119	-2.171278
Pt	-2.395213	2.224901	-2.824362	Pt	-3.119897	2.915414	-1.177726
Pt	-3.297234	2.907707	-0.367138	Pt	3.955899	1.952918	-0.488761
Pt	3.803048	-0.221897	-3.308035	Pt	3.608482	1.368326	2.159903
Pt	-3.802420	0.169637	3.362812	Pt	2.249157	-0.032877	-1.080751
Pt	-2.896139	2.433418	2.304278	Pt	-1.585604	2.377147	-3.385289
Pt	4.244267	-0.676717	-0.722691	Pt	1.857597	0.272999	3.923786
Pt	-1.643670	-3.673419	1.893631	Pt	-0.669074	4.046379	-1.449281
Pt	3.691868	1.823422	-1.611892	Pt	0.828149	3.481140	-3.582816
Pt	2.278097	2.873167	2.470209	Pt	-0.243469	1.671345	4.772393
Pt	1.014733	-4.089159	1.422258	Pt	-3.415284	2.302134	1.448069
Pt	-3.355776	-3.809830	-0.135844	Pt	-3.868430	-1.915633	0.473823
Pt	3.239534	-2.921817	0.423273	Pt	2.473482	-0.870831	-3.569860
Pt	-0.926375	2.231795	0.563822	Pt	-2.441666	0.848112	3.518501
Pt	-4.241972	0.650649	0.782874	Pt	-0.831912	-3.523348	3.619222
Pt	-1.010503	4.038663	-1.366175	Pt	-1.936517	0.559907	-1.480942
Pt	4.575313	-1.141969	1.878573	Pt	3.458319	-2.341597	-1.475577
Pt	0.783879	4.297153	0.675333	Pt	-3.094490	-3.815881	-1.224628

Pt	-0.647197	0.745927	-4.288249	Pt	-4.369193	0.592379	-0.425859
Pt	-0.158645	3.312457	-3.779189	Pt	-0.545666	-0.928991	4.296481
Pt	0.075226	-1.666234	1.900816	Pt	-0.408759	-1.721682	1.767916
Pt	-1.115362	-1.891492	-4.606940	Pt	3.069049	-2.860221	1.150172
Co	-2.245385	0.509226	-0.874921	Pt	0.479764	4.302599	0.992692
Co	-1.651422	-1.868352	-0.054279	Co	0.401250	1.706668	-1.755635
Co	1.862352	-0.130714	-1.604637	Co	-1.062841	2.210220	0.351453
Co	0.151694	-3.319774	3.794039	Co	-0.129910	0.816970	2.335363
Co	2.239746	-0.577400	0.924264	Co	0.110062	-0.827944	-2.331919
Co	-0.076932	1.608528	-1.841994	Co	-2.238175	0.016808	1.064298
Co	-0.003070	-0.042835	0.019968	Co	-1.507845	-1.872192	-0.605736
Co	0.902139	-2.267381	-0.507246	Co	1.918431	-0.559124	1.470707
Co	0.538958	0.879815	2.271644	Co	1.041998	-2.219708	-0.350124
Co	-1.811613	4.520653	1.103828	Co	-0.020315	-0.009054	0.003199
Co	-1.865768	0.062565	1.650800	Co	4.526949	-0.022049	-2.144281

Coordinates for Pt46Co9				Coordinates for Pt47Co8			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	1.749525	3.794627	-1.447004	Pt	3.632557	2.512193	-0.591172
Pt	1.748345	2.872069	2.901480	Pt	-2.429917	-4.346761	-0.935608
Pt	0.964009	-3.108735	-2.903432	Pt	0.210941	-4.320113	-0.597734
Pt	-2.181787	4.465519	0.966585	Pt	-4.426785	-0.135436	-0.567020
Pt	-0.476747	-4.246316	-0.908100	Pt	-0.912089	-3.216477	-2.808484
Pt	-2.355814	-1.849241	3.265860	Pt	1.278693	-3.838046	1.849346
Pt	-1.753922	-3.806063	1.440753	Pt	-2.282540	-0.241400	1.038993
Pt	-1.731854	-2.825658	-2.845200	Pt	3.838226	-1.898579	-1.206021
Pt	0.971564	-4.097520	1.379964	Pt	-0.159498	-1.622279	1.912857
Pt	2.108324	0.025055	-1.346582	Pt	4.392915	0.140413	0.558623
Pt	3.821793	2.068475	-0.958162	Pt	1.779979	-3.134308	-2.468911
Pt	-0.295277	-3.535538	3.692565	Pt	1.183872	2.156957	0.475397
Pt	-0.290778	-1.682401	-4.767501	Pt	2.698025	-0.778063	-3.450554
Pt	4.397212	-0.468223	-0.093914	Pt	-1.697197	-0.913552	-4.008822
Pt	3.260331	-2.774334	0.775723	Pt	2.849646	-4.183443	-0.268663
Pt	0.002424	0.913289	-4.252446	Pt	-1.454484	-3.899628	1.502855
Pt	-0.145659	-1.727748	1.803650	Pt	0.647271	-2.019088	-4.604146
Pt	4.279893	-1.022895	2.507393	Pt	-3.495242	2.274954	-1.480873
Pt	-2.347034	-0.341202	-3.741869	Pt	1.850753	-1.803674	3.620273
Pt	-4.328515	1.029682	-2.532224	Pt	3.959375	-0.251373	3.156509
Pt	-4.283411	-0.104326	2.699955	Pt	-3.993761	0.254626	-3.202799
Pt	-0.950079	3.114215	2.900635	Pt	-4.648648	-0.520721	2.101501
Pt	4.328087	0.097859	-2.731448	Pt	-2.574381	-1.955850	3.079521
Pt	3.144328	3.946409	0.858047	Pt	4.649155	0.516506	-2.103876
Pt	-3.802326	-1.487470	-1.720700	Pt	-1.940149	0.127617	-1.592422
Pt	-3.320462	2.823525	-0.790167	Pt	1.675411	0.890157	3.924249
Pt	2.346878	1.852555	-3.258354	Pt	2.454146	4.393406	0.946587
Pt	3.326954	-2.260186	-1.885308	Pt	-1.768099	3.125218	2.458340
Pt	2.304324	0.333754	3.674596	Pt	-0.224276	4.392973	0.616221
Pt	-2.049341	2.322679	-3.166912	Pt	-2.850954	4.182387	0.262381
Pt	-0.001862	-0.932793	4.331668	Pt	2.559425	1.942229	-3.050645
Pt	-0.953579	4.021370	-1.353565	Pt	3.284412	2.097656	2.098050
Pt	0.472897	4.315747	0.932993	Pt	-3.835478	1.893841	1.197298
Pt	0.282709	1.675965	4.770215	Pt	0.523431	0.622051	-4.274125
Pt	-3.280635	2.209624	1.851145	Pt	1.451451	3.898966	-1.510198
Pt	-3.730370	-2.021036	0.935926	Pt	0.391393	3.254993	-3.867195
Pt	2.051505	-0.816511	-3.853801	Pt	-1.830154	1.813674	-3.625737
Pt	-2.025524	0.788966	3.788244	Pt	-1.243877	3.759053	-1.822491
Pt	-2.115108	0.501477	-1.235953	Pt	-3.599474	-2.496570	0.582162
Pt	2.173715	-4.471955	-0.963870	Pt	-0.534731	-0.634445	4.347026

Pt	3.799857	1.473852	1.717434	Pt	2.280075	0.230470	-1.043195
Pt	-3.114736	-3.903848	-0.843809	Pt	-0.644244	2.013776	4.606378
Pt	-4.404218	0.469349	0.104401	Pt	-0.381724	-3.295044	3.907663
Pt	2.054201	-2.322115	3.166383	Pt	-2.691939	0.770044	3.448412
Pt	0.288696	3.494734	-3.652510	Pt	3.434514	-2.238758	1.456444
Pt	1.520036	1.937646	0.437269	Pt	-3.281676	-2.103994	-2.094055
Co	2.097256	-0.502556	1.229699	Pt	0.915388	3.272985	2.859693
Co	0.140539	1.712256	-1.790255	Co	1.393469	-2.056014	-0.140057
Co	1.054161	-2.192726	-0.473937	Co	0.195931	1.600963	-1.899136
Co	-1.074359	2.179723	0.479699	Co	0.318891	-0.999991	-2.255411
Co	-2.093968	-0.042913	1.326384	Co	-1.189224	-2.135355	-0.461900
Co	-0.017463	-0.010493	0.004725	Co	-1.402108	2.052607	0.124913
Co	-1.518112	-1.915099	-0.419779	Co	0.011118	-0.015978	-0.013626
Co	0.127794	0.819007	2.335066	Co	1.947690	-0.120542	1.549253
Co	-0.147993	-0.832006	-2.329312	Co	-0.315509	0.984770	2.263929

Coordinates for Pt48Co7				Coordinates for Pt49Co6			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	4.050070	1.157914	1.420216	Pt	1.912836	3.937420	-0.736165
Pt	2.219386	2.547502	2.890095	Pt	1.366648	2.487449	3.452991
Pt	0.386130	-1.275318	4.214578	Pt	1.344217	-2.787610	-3.165448
Pt	0.473539	-2.966859	-3.281541	Pt	-0.355267	-4.203638	-1.520591
Pt	1.815732	-4.540444	-1.544040	Pt	-2.703504	-2.171644	2.641316
Pt	-1.787529	-3.749242	1.315500	Pt	-1.913656	-3.950634	0.739337
Pt	-0.840819	-4.202406	-1.194756	Pt	-1.358298	-2.469300	-3.413983
Pt	0.867687	-4.232217	0.968269	Pt	-0.169222	0.495322	2.474348
Pt	2.130019	1.983977	-3.364791	Pt	0.786750	-4.268693	0.987680
Pt	2.978128	-2.249193	-2.383685	Pt	3.581518	-2.067972	-1.729208
Pt	1.577202	-0.595414	-4.026267	Pt	-1.950076	0.691480	-1.461859
Pt	2.221525	-2.664931	2.747260	Pt	0.327552	-1.083131	-4.948819
Pt	-2.736740	0.080835	-3.508292	Pt	4.374429	-0.514936	0.403961
Pt	-4.053350	-1.156676	-1.411828	Pt	2.287227	0.192399	-1.072161
Pt	3.742828	1.898245	-1.178359	Pt	1.609808	-2.679677	3.037997
Pt	-4.383071	0.688648	0.604131	Pt	0.543481	1.431393	-4.076361
Pt	3.416617	3.666861	0.793042	Pt	3.940691	-1.385859	2.889906
Pt	1.831937	3.828239	-1.335359	Pt	-1.853494	0.142871	-4.041663
Pt	0.870031	-2.232970	-0.773539	Pt	-3.979490	1.398033	-2.931563
Pt	0.885058	1.299712	4.885614	Pt	-4.607806	-0.379001	2.103727
Pt	-4.507842	1.448980	-1.988785	Pt	0.353817	4.198978	1.530366
Pt	2.767960	-0.078923	3.518898	Pt	4.655212	0.381021	-2.137455
Pt	-3.210030	3.038106	-0.223819	Pt	3.021647	3.781737	1.735979
Pt	0.092899	1.869448	-1.684642	Pt	-3.590444	-1.223245	-2.388785
Pt	-1.988762	-0.073330	1.556915	Pt	-3.556694	2.039537	1.714021
Pt	-0.389811	1.272076	-4.223745	Pt	2.751349	2.224270	-2.692987
Pt	0.438852	0.658440	2.399664	Pt	-1.498772	-1.872146	-0.834892
Pt	-2.167125	-2.493089	-2.844046	Pt	3.562880	1.200977	2.368788
Pt	-1.617619	0.610674	4.129441	Pt	1.152132	-2.184376	-0.591104
Pt	-3.817497	-1.944200	1.189533	Pt	1.868665	-0.156842	4.026258
Pt	-1.805736	4.490568	1.516453	Pt	-1.634132	2.740803	-3.096311
Pt	-0.491507	2.974115	3.265387	Pt	-1.355049	2.808016	3.202683
Pt	-2.968981	2.250379	2.378895	Pt	0.750484	3.922612	-3.136684
Pt	3.992192	0.098859	-3.132863	Pt	-0.334159	1.073996	5.008911
Pt	-4.038775	-0.109144	3.165159	Pt	-1.158736	2.180723	0.612145
Pt	-2.220269	0.700674	-0.992883	Pt	-3.914474	-2.109278	0.203530
Pt	-2.106686	-1.993261	3.367262	Pt	-2.330598	4.412136	1.243744
Pt	-0.119300	-3.763840	3.397768	Pt	2.532598	-0.373733	-3.638285
Pt	-3.414566	-3.667637	-0.798274	Pt	-2.547564	0.363312	3.620114
Pt	2.233283	-0.705587	0.959660	Pt	-0.558251	-1.484454	4.169033

Pt	4.513609	-1.451158	1.974055	Pt	-0.750423	-3.924238	3.134000
Pt	-2.236682	2.694004	-2.778842	Pt	-3.239654	2.980850	-0.868623
Pt	4.352745	-0.690894	-0.617013	Pt	-3.020840	-3.784755	-1.726755
Pt	3.239414	-3.072544	0.219078	Pt	-4.374654	0.515551	-0.400666
Pt	-0.869354	4.232851	-0.964024	Pt	1.500453	1.867519	0.856705
Pt	0.813456	4.116963	1.171098	Pt	3.220838	-2.949686	0.859737
Pt	0.135226	3.803933	-3.436336	Pt	2.327471	-4.414689	-1.234895
Pt	-0.871150	-1.277092	-4.834492	Pt	-0.789573	4.255715	-0.984700
Co	-1.683268	-1.804536	-0.393709	Pt	3.941247	2.135068	-0.208212
Co	-0.428329	-0.625603	-2.383208	Co	-2.278646	-0.182707	1.035275
Co	-0.894641	2.210848	0.744655	Co	0.160431	-0.543627	-2.440673
Co	1.966778	0.044822	-1.544117	Co	-0.001966	-0.014304	0.003058
Co	1.684064	1.804230	0.391686	Co	0.370568	1.941620	-1.542740
Co	0.006369	-0.002402	-0.016264	Co	1.950743	-0.680854	1.424238
Co	-0.053288	-1.852988	1.675207	Co	-0.370257	-1.939784	1.541764

Coordinates for Pt50Co5				Coordinates for Pt51Co4			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	2.129900	3.737422	-1.161680	Pt	1.834728	3.708362	-1.623708
Pt	0.114824	0.732986	2.434118	Pt	1.701660	3.045533	2.752140
Pt	0.869745	-3.074101	-3.080657	Pt	1.027638	-3.355246	-2.742406
Pt	-0.866650	3.095710	3.079476	Pt	-1.582450	-1.975424	-0.353690
Pt	-0.765626	-4.263201	-1.190332	Pt	-0.503565	-4.412081	-0.681752
Pt	-2.622596	-1.831561	3.078210	Pt	-2.484698	-1.626845	3.318757
Pt	-2.087466	-3.729064	1.182258	Pt	-1.851429	-3.748805	1.644229
Pt	-1.818317	-2.575389	-3.115134	Pt	-1.690516	-3.036518	-2.768916
Pt	0.600588	-4.227774	1.216734	Pt	0.904430	-4.055823	1.680657
Pt	-0.188973	-1.409870	-4.876741	Pt	3.405960	-2.409671	-1.666643
Pt	3.277089	-2.427939	-1.879862	Pt	0.220613	1.643490	-1.946025
Pt	4.419706	-0.819843	0.058836	Pt	2.129077	-0.434984	1.357802
Pt	1.733477	-2.639728	3.134072	Pt	-0.167910	-1.977681	-4.687374
Pt	4.151277	-1.494941	2.670773	Pt	4.462848	-0.514712	0.053528
Pt	0.277333	1.146062	-4.261738	Pt	1.962771	-2.158258	3.403196
Pt	-2.188121	0.030729	-3.858715	Pt	0.132758	0.656788	-4.393810
Pt	-4.129546	1.504252	-2.662668	Pt	0.078441	1.002496	2.349556
Pt	-4.456673	0.102067	2.560391	Pt	4.275125	-0.899233	2.733782
Pt	0.762761	4.137332	1.160607	Pt	-2.244755	-0.560946	-3.794865
Pt	4.478400	-0.092765	-2.552286	Pt	-4.271459	0.904747	-2.733234
Pt	3.382479	3.618078	1.185279	Pt	-4.383047	0.096562	2.586595
Pt	-3.862734	-1.103302	-1.971435	Pt	-1.046370	3.399878	2.758800
Pt	-3.055674	3.125685	-0.768070	Pt	4.431569	-0.090602	-2.622972
Pt	2.676125	1.853810	-3.102056	Pt	3.137257	3.948367	0.692070
Pt	3.845818	1.107093	1.958147	Pt	-3.826093	-1.584072	-1.765440
Pt	2.237307	-0.027144	3.904418	Pt	-3.314480	2.828578	-1.079554
Pt	-1.736001	2.672388	-3.158631	Pt	2.498660	1.655389	-3.358781
Pt	-2.200421	0.053480	1.277295	Pt	3.781729	1.582740	1.740111
Pt	0.741913	3.703642	-3.488326	Pt	2.271557	0.563610	3.834994
Pt	-0.598837	4.243680	-1.196668	Pt	-1.966914	2.165449	-3.405017
Pt	1.862083	2.589450	3.114462	Pt	-2.203252	4.612979	0.632955
Pt	-3.220742	2.418131	1.867533	Pt	-0.910263	4.059991	-1.685227
Pt	-4.029842	-1.819585	0.696680	Pt	0.434374	3.315019	-3.918733
Pt	-2.037598	0.751396	-1.322400	Pt	0.165077	2.008915	4.739623
Pt	2.060255	-0.736990	1.331932	Pt	-2.172553	1.061210	3.728135
Pt	2.167950	-0.777451	-3.802852	Pt	-3.862015	-1.967937	0.978391
Pt	-0.711514	-3.649641	3.466317	Pt	2.153545	-1.067638	-3.737317
Pt	-2.174823	0.791429	3.847840	Pt	-0.133194	-0.668073	4.440801
Pt	-1.868653	4.592309	1.117949	Pt	-2.121567	0.443850	-1.355979
Pt	-3.402459	-3.657606	-1.192897	Pt	-0.440292	-3.314408	3.921695

Pt	0.947691	-2.300233	-0.556042	Pt	-3.180360	-3.989337	-0.705365
Pt	-4.400278	0.816500	-0.054269	Pt	-0.230591	-1.643574	1.952250
Pt	0.374200	1.844768	-1.707216	Pt	-4.415308	0.507170	-0.049191
Pt	2.223076	-0.039077	-1.267762	Pt	2.196605	-0.039842	-1.305715
Pt	0.214417	1.442576	4.934027	Pt	-3.370395	2.380668	1.651498
Pt	-0.256891	-1.143795	4.267873	Pt	0.502130	4.364125	0.675928
Pt	3.109979	-3.144219	0.788249	Pt	3.856258	1.985266	-0.966006
Pt	-1.676095	-1.813447	-0.589694	Pt	3.312488	-2.822446	1.074016
Pt	1.912176	-4.643619	-1.124734	Pt	2.202700	-4.615009	-0.639262
Pt	4.010888	1.814646	-0.677463	Pt	-1.092184	2.289509	0.319437
Co	1.685588	1.786236	0.587227	Pt	1.092002	-2.294414	-0.330121
Co	-0.088170	-0.696253	-2.413352	Co	-0.083451	-0.981066	-2.325874
Co	0.013308	0.018087	0.007813	Co	1.556479	1.959269	0.343249
Co	-0.927378	2.271015	0.553724	Co	-0.004489	0.006574	-0.004472
Co	-0.346970	-1.805546	1.718711	Co	-2.174878	0.048113	1.283255

Coordinates for Pt52Co3				Coordinates for Pt53Co2			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	1.592172	3.988246	-1.318040	Pt	1.797946	4.042974	-0.794245
Pt	1.424765	2.961299	3.060997	Pt	1.773463	2.373265	3.386584
Pt	1.324692	-3.048621	-2.967398	Pt	0.136573	0.433975	2.540209
Pt	-1.427831	-2.057776	-0.543426	Pt	0.974678	-2.631399	-3.463507
Pt	-0.163020	-4.374364	-1.030802	Pt	-1.585072	-1.873488	-0.779563
Pt	-2.419243	-2.059483	3.124121	Pt	-0.501757	-4.153780	-1.669090
Pt	-1.599550	-3.994836	1.306485	Pt	-2.416078	-2.400476	2.942287
Pt	-1.410172	-2.928817	-3.034743	Pt	-1.803038	-4.043318	0.780843
Pt	1.172525	-4.102300	1.386779	Pt	-1.747247	-2.341507	-3.366690
Pt	0.063710	-1.617021	-4.831085	Pt	0.962470	-4.337852	0.682476
Pt	2.137203	-0.404145	1.379180	Pt	3.380009	-1.944471	-2.255234
Pt	4.485276	-0.190403	0.121461	Pt	1.096739	-2.159108	-0.874953
Pt	-0.167197	-1.029467	4.378013	Pt	-0.269859	-0.857511	-5.019334
Pt	0.163915	1.002195	-4.338591	Pt	4.467248	-0.474580	-0.165968
Pt	0.124261	1.800696	-1.827776	Pt	2.057669	-2.876942	2.783159
Pt	3.497323	-2.660252	0.932475	Pt	0.027772	1.644439	-4.143092
Pt	-2.127343	-0.426072	-3.881917	Pt	4.351480	-1.477861	2.361264
Pt	-4.280915	0.797769	-2.760653	Pt	-2.332468	0.301106	-3.786697
Pt	1.426757	2.075130	0.539946	Pt	2.174553	-0.738674	1.179239
Pt	-4.429787	-0.429851	2.480000	Pt	-4.467494	0.476992	0.151835
Pt	4.478113	0.429058	-2.523515	Pt	-4.342960	1.471570	-2.374073
Pt	2.860267	4.157835	1.082813	Pt	-4.388107	-0.547073	2.672126
Pt	-3.666959	-1.719141	-1.974613	Pt	0.501336	4.150809	1.666194
Pt	-3.505019	2.654763	-0.944401	Pt	4.377576	0.542812	-2.684255
Pt	2.429316	2.090102	-3.159911	Pt	3.190174	3.766113	1.527806
Pt	3.660132	1.716026	1.970922	Pt	-2.161669	0.730179	-1.193380
Pt	2.151189	0.426257	3.919106	Pt	-3.863301	-1.173040	-1.997595
Pt	4.283410	-0.808571	2.763940	Pt	2.177596	0.268037	-1.347726
Pt	-2.068489	2.275236	-3.281688	Pt	-3.356552	2.971702	-0.334097
Pt	-1.177848	4.099894	-1.389661	Pt	-1.105054	2.169411	0.858741
Pt	-0.050924	0.810089	2.436145	Pt	2.417528	2.401702	-2.945997
Pt	0.252185	3.633192	-3.653610	Pt	3.860731	1.171975	1.994489
Pt	-0.079593	1.633192	4.892041	Pt	2.368079	-0.311771	3.813334
Pt	-1.347016	3.087800	2.984322	Pt	-2.059087	2.878471	-2.786767
Pt	-1.286740	2.173479	0.467975	Pt	-0.992160	2.667811	3.484956
Pt	2.296168	-0.617072	-3.766883	Pt	0.163788	2.053716	-1.544524
Pt	2.224346	0.208968	-1.265803	Pt	0.330465	4.131456	-3.079757
Pt	-2.324730	0.603757	3.751489	Pt	0.273403	0.868767	5.085183
Pt	-3.724508	-2.317375	0.730768	Pt	-3.377945	1.942912	2.251965
Pt	-0.267937	-3.640497	3.645112	Pt	-3.872903	-2.207933	0.578566

Pt	-2.863870	-4.147377	-1.086728	Pt	2.071701	-0.167949	-3.943350
Pt	-3.580014	1.991331	1.752920	Pt	1.594206	1.881934	0.762730
Pt	1.265857	-2.183183	-0.479238	Pt	-2.211188	4.341372	1.719929
Pt	-0.145147	-1.810399	1.816517	Pt	-0.332155	-4.143556	3.068492
Pt	2.053714	-2.278854	3.281280	Pt	-2.106794	0.164814	3.972502
Pt	-4.441676	0.185369	-0.116411	Pt	-3.184185	-3.760971	-1.542434
Pt	3.609134	-2.027164	-1.766216	Pt	-0.030052	-1.676670	4.175451
Pt	0.148561	4.369645	1.030768	Pt	3.352660	-2.977474	0.321558
Pt	3.758851	2.344639	-0.736649	Pt	-0.958521	4.336545	-0.696199
Pt	2.549815	-4.384939	-0.939472	Pt	3.874602	2.201567	-0.591305
Pt	-2.129296	0.390173	-1.372053	Pt	2.205401	-4.334976	-1.734137
Pt	-2.565568	4.377635	0.930977	Pt	-2.192940	-0.273525	1.334588
Co	0.031672	-0.803370	-2.400262	Pt	-0.166032	-2.070819	1.532667
Co	-2.200870	-0.213538	1.232166	Co	-0.134243	-0.426572	-2.496879
Co	-0.014693	-0.006845	-0.007919	Co	-0.000985	-0.003131	-0.018326

Coordinates for Pt54Co1				Coordinates for Pt55Co0			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	2.011251	3.908300	-0.981617	Pt	1.964099	3.953858	-0.965315
Pt	1.557271	2.625275	3.311547	Pt	1.662301	2.568810	3.325731
Pt	1.194371	-3.005589	-3.134233	Pt	1.105052	-2.938668	-3.250477
Pt	-1.591553	-1.902484	-0.736861	Pt	-1.631751	-1.924474	-0.735940
Pt	-0.504860	-4.273018	-1.330390	Pt	-0.530920	-4.259815	-1.412308
Pt	-2.437392	0.590127	3.740906	Pt	-2.647060	-2.137661	2.974220
Pt	-2.011251	-3.908300	0.981617	Pt	-0.000000	-0.000000	-0.000000
Pt	-1.557271	-2.625275	-3.311547	Pt	-1.964100	-3.953858	0.965315
Pt	0.740391	-4.288614	1.158931	Pt	-1.662302	-2.568810	-3.325731
Pt	3.489803	-2.237870	-1.759748	Pt	0.803253	-4.323716	1.040568
Pt	0.374368	1.917729	-1.696355	Pt	3.450314	-2.186054	-1.933652
Pt	0.138668	-1.326361	-4.996779	Pt	-2.122956	0.719558	-1.372266
Pt	0.069380	-0.663621	-2.500050	Pt	-0.025750	-1.220278	-5.050562
Pt	4.452249	-0.615361	0.286900	Pt	4.477673	-0.598442	0.121762
Pt	2.313077	0.086794	-1.156543	Pt	1.830613	-2.736104	3.095982
Pt	1.702837	-2.666105	3.205580	Pt	0.301798	1.385048	-4.291045
Pt	0.453980	1.283025	-4.293165	Pt	2.307511	0.127425	-1.251787
Pt	1.591553	1.902484	0.736861	Pt	4.196967	-1.422527	2.712895
Pt	4.074944	-1.375660	2.872046	Pt	-2.158739	0.103393	-3.968837
Pt	-2.014857	0.025235	-4.027807	Pt	-4.196968	1.422527	-2.712895
Pt	-4.074944	1.375660	-2.872046	Pt	-4.561824	-0.251911	2.474715
Pt	-4.623083	-0.173474	2.311550	Pt	0.530920	4.259815	1.412308
Pt	-1.194371	3.005589	3.134233	Pt	4.561824	0.251911	-2.474715
Pt	4.623083	0.173474	-2.311550	Pt	1.106428	-2.290433	-0.661479
Pt	3.180992	3.802443	1.472745	Pt	3.225883	3.804579	1.454912
Pt	-3.714087	-1.242195	-2.223963	Pt	-3.794712	-1.217754	-2.130668
Pt	-3.209228	3.030824	-0.893573	Pt	-3.263792	3.042061	-0.718360
Pt	2.749412	2.050743	-2.918680	Pt	2.647060	2.137661	-2.974220
Pt	3.714087	1.242195	2.223963	Pt	3.794712	1.217754	2.130668
Pt	2.014857	-0.025235	4.027807	Pt	2.158739	-0.103393	3.968837
Pt	-1.702837	2.666105	-3.205580	Pt	-1.830613	2.736104	-3.095982
Pt	-0.740391	4.288614	-1.158931	Pt	-1.105052	2.938668	3.250477
Pt	-2.038826	0.688287	-1.436977	Pt	0.311642	1.987701	-1.691078
Pt	0.748239	3.832911	-3.390457	Pt	0.616100	3.929576	-3.343168
Pt	-0.138668	1.326361	4.996779	Pt	0.025750	1.220278	5.050561
Pt	-0.374368	-1.917729	1.696355	Pt	-1.106428	2.290432	0.661479
Pt	-3.489803	2.237870	1.759748	Pt	-3.981235	-2.073760	0.521344
Pt	-3.994663	-2.035148	0.429359	Pt	2.318933	-0.495049	-3.847075
Pt	2.437392	-0.590127	-3.740906	Pt	2.122956	-0.719558	1.372266
Pt	-0.069380	0.663621	2.500050	Pt	-2.318933	0.495049	3.847074

Pt	-2.313077	-0.086794	1.156543	Pt	-0.616100	-3.929576	3.343168
Pt	-0.748239	-3.832911	3.390457	Pt	-0.301799	-1.385048	4.291045
Pt	-3.180992	-3.802443	-1.472745	Pt	-3.225883	-3.804579	-1.454912
Pt	-4.452249	0.615361	-0.286900	Pt	-0.311642	-1.987701	1.691078
Pt	3.209228	-3.030824	0.893573	Pt	-4.477673	0.598442	-0.121762
Pt	2.038826	-0.688287	1.436977	Pt	1.631751	1.924474	0.735939
Pt	0.504860	4.273018	1.330390	Pt	3.263792	-3.042061	0.718360
Pt	3.994663	2.035148	-0.429359	Pt	-0.803254	4.323716	-1.040568
Pt	-1.098071	2.274227	0.563544	Pt	3.981235	2.073760	-0.521344
Pt	2.194685	-4.545434	-1.126339	Pt	2.187348	-4.528059	-1.307709
Pt	1.098071	-2.274227	-0.563544	Pt	-2.307512	-0.127425	1.251787
Pt	-2.749412	-2.050743	2.918680	Pt	0.013025	0.617255	2.554730
Pt	-0.453980	-1.283025	4.293165	Pt	-0.013026	-0.617255	-2.554730
Pt	-2.194685	4.545434	1.126339	Pt	-3.450314	2.186054	1.933652
Co	0.000000	0.000000	0.000000	Pt	-2.187348	4.528059	1.307709

Coordinates for PtNi(N=38)

Coordinates for Pt0Ni38				Coordinates for Pt1Ni37			
Atom	X	Y	Z	Atom	X	Y	Z
Ni	-2.908121	0.397389	2.602559	Pt	-0.580005	0.305541	1.763641
Ni	-1.021878	3.731361	0.648946	Ni	-1.491333	0.914487	-2.472314
Ni	-3.886529	-0.318029	0.426825	Ni	-1.166328	3.619065	0.856546
Ni	2.455760	-1.707493	-0.542877	Ni	1.596983	0.376488	0.463456
Ni	-1.238152	-3.704965	0.358683	Ni	-3.835421	-0.522935	0.835353
Ni	1.163998	-0.968041	2.636098	Ni	2.428954	-1.620514	-0.762469
Ni	-1.103674	-0.936364	3.646029	Ni	-0.347881	1.634111	-0.384804
Ni	2.077904	1.654541	-1.478449	Ni	-1.074741	-3.794119	0.448910
Ni	2.908121	-0.397389	-2.602559	Ni	1.430802	-0.994505	2.599107
Ni	1.238152	3.704965	-0.358683	Ni	-0.782394	-1.086665	3.858960
Ni	-0.637888	0.365152	1.569820	Ni	2.624174	-0.264934	-2.833725
Ni	0.786142	2.393993	1.700525	Ni	0.986805	3.732059	-0.377540
Ni	3.430948	-0.989329	1.624276	Ni	0.804879	2.429898	1.737949
Ni	0.186591	-1.660218	0.461997	Ni	3.565096	-0.878563	1.320301
Ni	-3.054225	-2.362618	-0.691510	Ni	-3.042930	-2.521429	-0.409528
Ni	-0.266006	-2.994127	2.520487	Ni	0.049991	-3.035381	2.530014
Ni	3.054225	2.362618	0.691511	Ni	2.954984	2.459354	0.480895
Ni	-3.430948	0.989329	-1.624276	Ni	-3.653053	0.816513	-1.248959
Ni	-0.324051	-1.081827	-3.756734	Ni	-0.664861	-1.082633	-3.694711
Ni	-1.994024	3.020525	-1.512857	Ni	-2.300997	2.914670	-1.238230
Ni	1.994023	-3.020525	1.512857	Ni	2.213050	-2.976723	1.309569
Ni	1.600895	0.339002	0.571663	Ni	1.082105	-3.710023	-0.771987
Ni	1.021878	-3.731361	-0.648947	Ni	-1.409805	2.345866	2.995736
Ni	-1.480396	2.415580	2.713264	Ni	0.594398	1.049877	3.869889
Ni	0.324051	1.081828	3.756734	Ni	2.719078	1.106603	2.551196
Ni	2.598643	1.055261	2.742610	Ni	0.674489	0.995803	-3.684088
Ni	1.103674	0.936365	-3.646028	Ni	1.284829	-2.343372	-2.844354
Ni	1.480395	-2.415580	-2.713264	Ni	-1.683913	-0.439194	-0.395415
Ni	0.637888	-0.365152	-1.569821	Ni	3.775262	0.469330	-0.750608
Ni	3.886529	0.318028	-0.426825	Ni	-2.568092	1.591333	0.854960
Ni	-2.455760	1.707493	0.542876	Ni	0.458969	-0.346835	-1.585666
Ni	0.266006	2.994128	-2.520486	Ni	-0.145176	3.004431	-2.460530
Ni	-2.077904	-1.654541	1.478450	Ni	-1.942176	-1.833078	1.716141
Ni	-2.598643	-1.055260	-2.742610	Ni	-2.838356	-1.174915	-2.481895
Ni	-1.163998	0.968041	-2.636098	Ni	-2.786593	0.209321	2.984814
Ni	-0.786142	-2.393993	-1.700525	Ni	0.260955	-1.696816	0.452852
Ni	-1.600895	-0.339002	-0.571663	Ni	-0.877716	-2.442607	-1.628076
Ni	-0.186591	1.660218	-0.461997	Ni	1.815338	1.736573	-1.606701

Coordinates for Pt2Ni36				Coordinates for Pt3Ni35			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.372482	-1.665151	0.538773	Pt	1.562713	1.283766	1.130446
Pt	1.751057	0.351844	0.108540	Pt	-1.468761	-1.663455	0.373204
Ni	-1.717770	-0.351456	-0.104589	Pt	0.936792	-0.904158	0.141322
Ni	2.355196	-1.842769	-1.092536	Ni	0.131084	-2.325873	-1.937781
Ni	0.158051	-0.471536	-1.704170	Ni	-0.916680	0.902522	0.441749
Ni	0.053642	0.665161	-3.898609	Ni	1.693613	3.601321	1.995244
Ni	-0.359336	1.636061	-0.528539	Ni	-3.559118	-3.194315	0.024731
Ni	2.102066	-0.594957	-3.221592	Ni	1.231407	1.415668	3.678593
Ni	3.132198	2.442060	-0.343099	Ni	0.651049	1.434021	-1.235277
Ni	1.930919	-0.808016	2.399015	Ni	2.187532	3.183117	-0.633526
Ni	1.179863	2.565190	1.253345	Ni	-1.711722	2.192202	-1.542508
Ni	0.720356	-2.616493	-2.790390	Ni	-0.378899	1.362847	-3.498214
Ni	-3.786165	0.900204	-0.726904	Ni	0.228866	3.582401	-2.286590
Ni	-0.252657	0.530052	1.675339	Ni	2.089919	2.051473	-3.067892
Ni	1.592109	1.559802	-2.138983	Ni	-0.933373	-0.220141	-1.640597
Ni	-1.332126	-1.362309	-3.466123	Ni	-0.614378	2.329737	2.392324
Ni	1.296745	1.368996	3.405210	Ni	1.290170	-0.372374	-2.761894
Ni	-3.093930	-2.379330	0.329166	Ni	2.659537	-1.964083	-1.336747
Ni	-1.881018	0.790231	-2.322495	Ni	3.532265	-0.455588	0.844556
Ni	1.030662	3.655356	-0.958077	Ni	2.012163	-0.793033	2.682095
Ni	-1.213169	-2.544569	-1.263482	Ni	-0.971657	-1.130557	-3.857932
Ni	3.839089	-0.923508	0.740233	Ni	2.864169	0.609018	-1.158749
Ni	0.878664	-3.859174	-0.623963	Ni	3.964202	2.037465	0.551696
Ni	-1.075409	-3.714094	0.970041	Ni	-0.282961	-0.162746	2.438917
Ni	2.445105	-2.963047	1.175275	Ni	2.547668	-2.677726	1.126032
Ni	-0.084958	-0.652542	3.836416	Ni	-2.571563	0.603926	2.164691
Ni	3.290027	1.281019	1.894630	Ni	3.510195	1.214059	2.799476
Ni	-2.401228	2.926476	-1.159124	Ni	-1.616604	-3.955996	1.436762
Ni	-0.890011	3.791711	0.606312	Ni	-2.777907	0.496210	-3.038447
Ni	-3.244765	-1.234518	-1.866636	Ni	0.255392	-2.484085	2.226064
Ni	-3.649960	-0.246346	1.467638	Ni	0.514590	-3.519287	0.086230
Ni	-0.763721	2.658503	2.827293	Ni	-0.127334	3.253605	0.203359
Ni	3.703198	0.273363	-1.505442	Ni	-2.579575	2.648723	0.726258
Ni	-1.625428	-1.539207	2.128825	Ni	-3.067475	0.301916	-0.498905
Ni	-0.484805	2.803523	-2.728000	Ni	-3.905018	-1.177051	1.247657
Ni	-2.149483	0.631017	3.259756	Ni	-2.721388	-1.802897	-1.911163
Ni	0.465478	-2.851528	2.776134	Ni	-1.560253	-3.860842	-1.136032
Ni	-2.290970	1.789981	1.050813	Ni	-2.098659	-1.839788	2.830848

Coordinates for Pt4Ni34				Coordinates for Pt5Ni33			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.475859	-2.154457	0.362170	Pt	-0.067554	1.008262	1.687115
Pt	1.788701	-0.133316	0.985703	Pt	1.222008	1.476942	-0.435194
Pt	-0.875223	-0.065629	1.017293	Pt	0.818217	-0.308452	-2.188364
Pt	-1.780386	1.063028	-1.027671	Pt	0.835237	-1.062550	0.273682
Ni	0.421530	-0.252749	-1.274494	Pt	-1.425704	-1.123967	1.504548
Ni	1.859539	3.384225	-1.530182	Ni	-0.613289	1.988556	-2.340583
Ni	-1.537665	-1.593241	-1.262976	Ni	-1.270267	-1.870785	-1.184167
Ni	2.796828	1.218306	2.955055	Ni	-1.089164	0.410431	-0.570351
Ni	2.798935	2.242764	0.674165	Ni	2.192889	-3.143382	0.639133
Ni	0.666144	2.025208	2.148409	Ni	3.186242	0.013129	0.483993
Ni	2.494978	-1.472483	-1.300732	Ni	2.883606	-1.634491	-1.294768
Ni	-0.730665	3.514051	-1.384950	Ni	-1.716091	-3.477600	2.545520
Ni	1.585993	-0.346854	-3.400167	Ni	0.580917	-2.471342	2.494848
Ni	0.474604	-2.439576	-2.362505	Ni	0.854908	-2.934950	-1.593749
Ni	-4.364725	1.260352	-1.095074	Ni	-3.283848	-0.616593	-0.487976
Ni	3.062681	-2.534643	0.740659	Ni	-1.875990	-0.104944	-2.804962
Ni	0.551328	1.800514	-0.212172	Ni	-0.475061	-1.980138	-3.598908
Ni	1.657022	-2.225566	2.666443	Ni	1.693666	2.201579	-2.911571
Ni	-0.967156	-0.229808	-3.276952	Ni	-2.938001	-2.875244	0.454433
Ni	-3.061664	3.268901	-0.721993	Ni	2.425928	0.211298	-4.141799
Ni	-2.870947	-0.781214	2.448452	Ni	-0.150070	-0.519387	3.785364
Ni	0.321044	1.751483	-2.687902	Ni	-1.387048	3.043130	2.438574
Ni	4.144758	-0.082310	0.100744	Ni	0.808968	3.489969	1.263097
Ni	1.749727	-3.978276	-0.822070	Ni	-0.401419	-3.391522	0.473836
Ni	-0.744692	-2.024280	2.760537	Ni	-2.427701	-1.552716	3.846116
Ni	-1.313491	2.761123	0.959804	Ni	-0.043804	0.595864	-4.377100
Ni	-3.378707	-0.749410	-0.001665	Ni	-1.096076	2.787449	-0.049638
Ni	-1.539839	1.294758	3.058849	Ni	0.648305	2.015319	3.837782
Ni	3.778752	-0.930745	2.439176	Ni	-3.885777	-0.800403	1.945871
Ni	-2.178093	2.166637	-3.209250	Ni	1.938626	-0.440294	2.537285
Ni	0.039852	-4.222581	1.665449	Ni	3.269853	0.723518	-1.843007
Ni	0.846752	4.045780	0.664805	Ni	-2.963278	1.737949	-1.415952
Ni	0.596853	-0.086092	3.276557	Ni	2.016680	-2.120972	-3.597597
Ni	-2.041754	-2.636249	0.861414	Ni	3.217710	2.949089	-0.390912
Ni	-3.218725	1.351854	1.156112	Ni	2.429262	1.859176	1.887418
Ni	-3.284410	-0.361043	-2.555948	Ni	-2.676919	1.238579	1.055644
Ni	-0.802735	-3.999875	-0.832622	Ni	-2.101010	0.822440	3.333495
Ni	2.522270	0.985845	-1.448078	Ni	0.848571	3.855646	-1.240635

Coordinates for Pt6Ni32				Coordinates for Pt7Ni31			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.108492	0.870958	1.858581	Pt	-3.545982	0.330870	1.215497
Pt	1.858926	1.912106	-2.864906	Pt	0.870140	1.984731	-0.001909
Pt	0.511007	-0.299097	-2.260140	Pt	1.900062	-0.128992	-0.957502
Pt	-1.499757	-0.966043	1.392230	Pt	-1.218783	1.355878	1.295282
Pt	0.752657	-1.085027	0.158365	Pt	0.438010	-2.103218	-0.253071
Pt	-0.503177	2.274441	-2.410169	Pt	-1.501509	-1.179825	1.147900
Ni	-1.677298	-1.540277	-1.176251	Pt	1.610756	-2.124194	-2.509373
Ni	3.198415	-1.623304	0.607894	Ni	0.503403	0.163010	-3.100787
Ni	2.705335	0.787421	1.096333	Ni	4.103440	1.062512	-1.175136
Ni	2.405170	-2.114975	-1.751778	Ni	3.055856	-0.091047	-3.231684
Ni	-2.125896	-2.895226	2.824037	Ni	-1.848558	-3.458336	2.151777
Ni	0.370491	-2.714316	2.190561	Ni	2.714087	-1.708331	0.940713
Ni	-3.442495	-0.086727	-0.302960	Ni	-2.930959	-1.177683	3.236570
Ni	1.059579	1.481870	-0.466607	Ni	0.079094	-4.097775	-1.801663
Ni	-1.197430	-1.679364	-3.623495	Ni	-2.010197	0.415388	-2.955066
Ni	-2.143732	0.363125	-2.706573	Ni	0.464522	-2.409778	2.333020
Ni	0.151983	-2.911684	-1.818102	Ni	-0.627597	-0.117320	3.354478
Ni	-0.997183	-3.304843	0.335418	Ni	3.872409	-1.674745	-1.315865
Ni	2.726467	-0.333465	-3.655196	Ni	-3.243506	2.908026	1.318417
Ni	-0.347108	-0.991892	3.721227	Ni	1.028508	4.151077	1.260047
Ni	-0.915283	3.017567	2.684027	Ni	-1.901191	-3.194336	-0.424990
Ni	1.149591	3.836892	-1.198468	Ni	2.020872	2.073268	-2.314161
Ni	1.561304	-3.514081	0.165330	Ni	-0.665010	0.129837	-0.904593
Ni	-3.880462	-0.584655	2.130124	Ni	-0.521819	2.287131	-2.128240
Ni	0.055612	0.761197	-4.474910	Ni	0.872123	-0.171665	1.422170
Ni	-0.761636	2.984502	0.183640	Ni	0.968474	4.166898	-1.304115
Ni	-0.020356	1.398876	4.390838	Ni	-2.629734	1.654643	-0.837667
Ni	-1.114755	0.658948	-0.493035	Ni	2.370641	-3.701750	-0.592985
Ni	1.856307	-0.864928	2.618072	Ni	-1.157751	3.586602	-0.018197
Ni	-3.348282	-2.480692	0.515425	Ni	0.076627	-4.374898	0.761157
Ni	2.919970	0.145847	-1.233986	Ni	0.953826	1.981968	2.593065
Ni	-2.793159	2.288794	-1.166262	Ni	3.000696	1.007460	1.114597
Ni	1.162867	-2.159353	-3.960902	Ni	-2.917153	-0.907914	-0.990549
Ni	3.228381	2.557310	-0.685987	Ni	-1.066780	3.524051	2.559341
Ni	2.131835	1.596541	3.304271	Ni	-3.815621	-2.243553	1.011659
Ni	-2.472180	1.556626	1.276272	Ni	-2.640494	1.426077	3.388536
Ni	-2.115905	0.609044	3.421407	Ni	3.069864	3.179190	-0.214434
Ni	1.442264	3.048244	1.375412	Ni	-0.977137	-1.831519	-2.391878

Coordinates for Pt8Ni30				Coordinates for Pt9Ni29			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.088775	1.990230	-2.486360	Pt	1.973416	-0.238896	-0.935551
Pt	1.506155	-0.518712	0.914066	Pt	-1.724959	-3.326282	0.000769
Pt	-0.923604	0.189520	1.570974	Pt	-1.460561	-1.123378	1.265214
Pt	-1.518640	0.492918	-0.957014	Pt	-1.239887	1.456220	1.099943
Pt	1.110209	1.378876	2.607503	Pt	0.549607	-2.166452	-0.000307
Pt	-2.971171	-0.996806	0.558317	Pt	-1.143295	3.500373	-0.435765
Pt	1.924769	-2.423886	-0.765344	Pt	0.879042	1.976567	-0.262694
Pt	0.911113	-0.215314	-1.613919	Pt	-3.541019	0.350172	1.117359
Ni	-2.355209	-1.335775	3.044527	Pt	1.777401	-2.412331	-2.231525
Ni	-3.530943	-0.736285	-1.950536	Ni	0.540241	-2.120231	2.601767
Ni	3.510371	0.712270	1.921633	Ni	3.175711	-0.445051	-3.179213
Ni	1.912035	3.159705	-1.403053	Ni	-1.735063	-3.259753	2.598482
Ni	0.289768	0.030040	-4.096642	Ni	2.793926	-1.527419	1.163514
Ni	-2.102629	0.727393	-3.449833	Ni	-2.618633	1.435511	-1.084824
Ni	-1.921054	-3.186647	1.362257	Ni	-2.914938	-0.871211	3.323914
Ni	3.321849	-0.855486	-2.237395	Ni	-0.483705	1.958612	-2.437156
Ni	0.523812	1.727563	0.062648	Ni	0.298587	-4.354252	-1.298469
Ni	1.291453	-2.141925	-3.254313	Ni	-0.627375	0.243496	3.319660
Ni	-1.125767	-1.453579	-2.609071	Ni	4.003849	-1.744999	-1.065084
Ni	-2.499232	-2.891842	-1.094126	Ni	-3.308262	2.947481	0.919147
Ni	-3.298806	0.946368	2.200078	Ni	1.025342	4.284755	0.766214
Ni	2.488856	2.865584	1.047542	Ni	2.077578	1.782252	-2.547267
Ni	0.052756	-2.054490	2.397808	Ni	0.606816	-0.249046	-3.107646
Ni	0.127919	3.553757	1.685834	Ni	-2.693623	1.719705	3.157511
Ni	-0.143866	-3.578381	-1.730925	Ni	4.165431	0.953351	-1.255057
Ni	3.907742	-1.154215	0.251715	Ni	2.560866	-3.703694	-0.121709
Ni	-2.471571	2.713847	-1.797735	Ni	0.283617	-4.307455	1.326988
Ni	-0.448893	3.847880	-0.764763	Ni	3.005902	1.162978	1.001655
Ni	2.467193	-2.741413	1.740747	Ni	-0.831502	-2.182380	-2.183624
Ni	-3.884697	1.245096	-0.289040	Ni	-0.602882	-0.036750	-0.917624
Ni	2.054622	-0.869837	3.401250	Ni	0.882512	-0.007813	1.403003
Ni	-0.337783	-0.172496	4.048057	Ni	-2.842342	-1.141966	-0.920951
Ni	-1.290599	2.111680	3.219607	Ni	-1.126958	3.762001	2.145712
Ni	2.329391	1.314443	-3.095718	Ni	-3.754160	-2.252079	1.251155
Ni	2.930171	1.026896	-0.587849	Ni	0.918582	2.269068	2.316543
Ni	-1.882136	2.429603	0.713198	Ni	3.080244	3.150215	-0.587868
Ni	0.434321	-3.873200	0.725460	Ni	-1.912473	-0.046403	-3.015799
Ni	-0.536299	-1.753354	-0.105589	Ni	0.986023	3.987782	-1.832919

Coordinates for Pt10Ni28				Coordinates for Pt11Ni27			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-1.835982	-3.268647	0.057012	Pt	-1.816589	-3.223224	-0.625728
Pt	1.939663	-0.285701	-1.032761	Pt	2.076721	-0.192538	-0.773161
Pt	0.465452	-2.165990	-0.026192	Pt	0.472844	-2.160549	-0.236758
Pt	-1.213083	1.520910	1.063589	Pt	-1.645119	-1.183604	0.894727
Pt	-1.483054	-1.049443	1.269423	Pt	1.946132	-2.218603	-2.320782
Pt	1.630177	-2.495212	-2.274390	Pt	0.950274	2.001037	0.026720
Pt	0.902271	1.992929	-0.359239	Pt	-1.346447	1.391656	1.079903
Pt	-1.120224	3.546025	-0.488714	Pt	-1.079455	3.607794	-0.216764
Pt	-3.535819	0.465047	1.160618	Pt	-3.692614	0.401358	0.657186
Pt	2.072536	1.716492	-2.611666	Pt	2.433580	1.991870	-2.047159
Ni	-1.773952	-3.152251	2.652934	Pt	-2.538575	1.742663	-1.196845
Ni	0.885154	0.013531	1.320839	Ni	2.427154	-3.772371	-0.292679
Ni	-2.872139	-0.740111	3.365919	Ni	0.312017	-4.185369	-1.792701
Ni	0.121502	-4.375180	-1.270441	Ni	-0.169951	2.277364	-2.287825
Ni	-0.535595	1.967304	-2.499596	Ni	0.694061	-0.177305	1.424763
Ni	0.499230	-0.305675	-3.171443	Ni	0.951223	0.087547	-3.078788
Ni	0.526484	-2.067624	2.574935	Ni	-1.590486	0.418325	-3.220874
Ni	-0.635889	-0.008380	-0.947803	Ni	0.156271	-2.396600	2.334786
Ni	-0.561667	0.322489	3.281413	Ni	2.570488	-1.753882	1.251062
Ni	3.899712	-1.886232	-1.163277	Ni	2.880499	0.946131	1.423691
Ni	-3.259323	3.050795	0.924535	Ni	-3.365599	3.000454	0.945044
Ni	-2.601246	1.838985	3.159384	Ni	4.034657	-1.799912	-0.830294
Ni	-1.040651	3.829458	2.093832	Ni	-3.030071	1.428943	2.972915
Ni	-0.971326	-2.181305	-2.167368	Ni	-0.486187	0.117777	-1.021630
Ni	1.001317	4.001513	-1.941251	Ni	-1.020985	-0.116631	3.184280
Ni	3.090788	-0.587988	-3.297824	Ni	-1.294831	3.558143	2.392581
Ni	1.081896	4.303083	0.666165	Ni	-0.644464	-1.870406	-2.545122
Ni	2.420480	-3.772924	-0.153282	Ni	1.261974	4.189765	-1.257426
Ni	2.745335	-1.572509	1.082494	Ni	3.539586	-0.225043	-2.872133
Ni	0.181185	-4.272601	1.352907	Ni	0.960616	4.168784	1.329919
Ni	-2.645705	1.496455	-1.080297	Ni	-0.007053	-4.421009	0.804022
Ni	0.984676	2.294782	2.225594	Ni	-2.133364	-3.437431	1.944402
Ni	3.028517	1.123601	0.866587	Ni	0.682227	1.973273	2.614653
Ni	-2.915003	-1.067524	-0.874969	Ni	-2.759933	-0.900625	-1.421625
Ni	-3.803085	-2.126281	1.339123	Ni	-3.951849	-2.207764	0.486290
Ni	4.185502	0.834723	-1.381181	Ni	-3.342074	-1.110783	2.768919
Ni	3.144578	3.121105	-0.705364	Ni	4.348832	0.923803	-0.652765
Ni	-2.014047	-0.028249	-3.003345	Ni	3.216467	3.126996	0.155202

Coordinates for Pt12Ni26				Coordinates for Pt13Ni25			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-2.259169	-3.013654	-0.232093	Pt	-2.176425	-3.084315	-0.095420
Pt	1.936783	-0.489530	-0.977597	Pt	1.961797	-0.474961	-0.918459
Pt	0.192395	-2.214086	-0.111120	Pt	4.283515	0.413381	-1.231905
Pt	-1.660298	-0.901870	1.154580	Pt	0.251872	-2.217778	0.016065
Pt	1.355906	-2.598216	-2.382868	Pt	-1.648905	-0.899303	1.202382
Pt	-1.145665	-2.045830	-2.329299	Pt	1.440968	-2.667553	-2.235484
Pt	-1.036685	1.621232	1.116727	Pt	-1.066408	-2.174889	-2.221154
Pt	-0.662516	3.700246	-0.366454	Pt	-1.095271	1.637212	1.059748
Pt	-3.516253	0.909060	1.023735	Pt	-0.764760	3.661502	-0.505244
Pt	2.399419	1.549269	-2.438033	Pt	-3.552426	0.851958	0.973019
Pt	1.180031	1.871913	-0.221593	Pt	2.424800	1.536827	-2.484850
Pt	-2.434880	1.977144	-1.041375	Pt	1.130884	1.901269	-0.259532
Ni	-0.457560	-4.310823	1.155238	Pt	-2.476393	1.860632	-1.126353
Ni	1.946470	-4.035095	-0.274394	Ni	-0.212819	-4.441578	-1.211489
Ni	-0.581106	0.121814	-0.962733	Ni	2.080406	-3.973318	-0.072634
Ni	-0.344331	-4.371642	-1.429824	Ni	-0.360053	-4.271618	1.367750
Ni	-0.166205	2.137499	-2.416655	Ni	-0.187900	2.025766	-2.477500
Ni	0.587504	-0.214436	-3.169616	Ni	0.623572	-0.324013	-3.123106
Ni	-1.885656	0.372572	-3.051868	Ni	-1.863017	0.189340	-3.056489
Ni	2.492981	-1.961270	1.094382	Ni	2.549921	-1.835495	1.206384
Ni	3.121791	0.670644	1.029526	Ni	3.100078	0.803935	1.064056
Ni	-2.853858	3.459287	1.077188	Ni	-2.966911	3.418312	0.920876
Ni	3.656681	-2.335586	-1.154661	Ni	3.769858	-2.235344	-1.038770
Ni	-0.652744	0.216364	3.279294	Ni	-0.697095	0.338441	3.284845
Ni	-2.475318	1.985591	3.170988	Ni	-2.566785	2.049975	3.081675
Ni	3.562776	2.710265	-0.426067	Ni	3.500562	2.806245	-0.466499
Ni	1.593647	3.920651	-1.694050	Ni	-0.574768	0.062946	-0.942998
Ni	3.118745	-0.838412	-3.217640	Ni	1.499994	3.897567	-1.810936
Ni	1.594917	4.098087	0.905055	Ni	3.132466	-0.899967	-3.187279
Ni	-0.577777	3.841736	2.247333	Ni	1.452058	4.184856	0.783153
Ni	0.831648	-0.167585	1.355401	Ni	-0.726937	3.916125	2.104046
Ni	-2.303163	-3.014507	2.387448	Ni	-2.251087	-2.971230	2.521668
Ni	1.211507	2.037511	2.374574	Ni	1.114238	2.171692	2.330157
Ni	-3.001682	-0.626673	-1.047748	Ni	-2.974231	-0.755917	-1.022931
Ni	-4.099693	-1.654797	1.064602	Ni	0.821675	-0.087165	1.392578
Ni	-3.107212	-0.505462	3.190696	Ni	-3.129661	-0.454213	3.204212
Ni	4.324480	0.333363	-1.187021	Ni	-4.066953	-1.721667	1.121582
Ni	0.131962	-2.232315	2.495371	Ni	0.162122	-2.118449	2.618822

Coordinates for Pt14Ni24				Coordinates for Pt15Ni23			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	1.078256	-1.217871	-1.008550	Pt	-2.165413	-1.927093	1.430571
Pt	1.516747	0.452626	1.037100	Pt	-0.724848	0.299780	1.693493
Pt	-0.213641	3.839275	-1.292432	Pt	-1.229294	1.198356	-2.744615
Pt	-1.470814	-0.435714	-1.092099	Pt	2.532496	1.015458	3.007591
Pt	-0.906685	-2.981011	-0.870549	Pt	2.598033	-1.748897	-0.671002
Pt	0.034461	0.323490	3.159104	Pt	-3.494164	1.218818	-1.699897
Pt	-1.044100	1.196940	0.969445	Pt	1.203125	-1.087795	2.796009
Pt	0.833782	3.012740	0.820157	Pt	0.252130	-1.824659	0.426589
Pt	0.027015	-0.331896	-3.205523	Pt	2.143921	1.844475	-1.502358
Pt	-2.348623	-3.063898	1.168381	Pt	0.714391	-0.306605	-1.713593
Pt	2.142779	-2.053703	1.200829	Pt	-0.209845	1.830865	-0.419157
Pt	-2.960595	-0.643881	1.051950	Pt	-3.008709	-2.622455	-0.811162
Pt	2.983311	0.532354	-1.097388	Pt	-2.634299	1.783027	0.572179
Pt	-2.057081	2.152756	-1.248667	Pt	0.757342	2.439656	1.979892
Ni	0.615942	-2.835234	-2.971946	Pt	-0.759201	-2.521394	-1.884003
Ni	-1.882272	-2.045326	-3.090721	Ni	-2.031939	3.357034	-1.449419
Ni	1.618519	-3.710946	-0.749647	Ni	0.137109	0.954620	4.053023
Ni	4.011419	-0.279022	1.115285	Ni	1.683664	0.356817	0.624444
Ni	3.348116	2.237232	0.848370	Ni	-0.348131	-0.958772	-3.952032
Ni	1.910703	2.090409	2.998472	Ni	-3.116415	0.210319	2.613167
Ni	-1.806306	-1.504587	3.200417	Ni	2.165680	-3.158493	1.485792
Ni	-0.397127	-1.328602	1.145793	Ni	-1.677368	2.370095	2.909655
Ni	-0.505263	2.205076	-3.317054	Ni	-1.109910	3.870847	0.892350
Ni	0.173569	-3.744733	1.354719	Ni	-1.098531	-4.028834	0.259397
Ni	-1.708677	3.700698	0.841486	Ni	1.146867	1.170603	-3.790007
Ni	3.565725	-1.974525	-0.939321	Ni	-1.663612	-0.360158	-0.646123
Ni	-3.404689	-2.163244	-1.041028	Ni	-0.210652	-3.244797	2.538643
Ni	2.529682	-1.060934	-3.124230	Ni	-1.226136	-1.200385	3.735746
Ni	2.274816	3.023284	-1.330507	Ni	3.974885	0.401423	-0.434268
Ni	-2.437978	0.516794	-3.269411	Ni	3.516856	-0.989907	1.638515
Ni	-3.533078	1.882967	0.881207	Ni	-2.655073	-0.991482	-2.833266
Ni	-3.929067	0.356139	-1.150271	Ni	3.068055	-0.249406	-2.752005
Ni	2.527344	-0.439787	3.225629	Ni	1.596584	-2.387983	-2.966704
Ni	0.462934	1.318898	-1.192083	Ni	1.194232	-3.888225	-0.848437
Ni	-0.613864	2.800945	2.968625	Ni	1.273424	3.901842	-0.147692
Ni	0.641337	-2.167297	3.280801	Ni	0.286160	3.297240	-2.510860
Ni	-2.491611	0.965766	3.075299	Ni	3.088393	2.400487	0.854111
Ni	1.905283	1.416511	-3.253685	Ni	-3.973008	-0.439061	0.274329

Coordinates for Pt16Ni22				Coordinates for Pt17Ni21			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.204241	3.078746	-2.761106	Pt	-2.010013	-2.206245	1.465363
Pt	-2.603162	1.799400	0.703097	Pt	-1.417255	1.270945	-2.516141
Pt	1.740014	0.434860	0.511490	Pt	0.685348	2.324383	2.174505
Pt	0.643828	-0.342878	-1.778879	Pt	-1.590535	1.912827	3.254638
Pt	2.656728	-1.704866	-0.689408	Pt	-0.366006	1.828504	-0.154358
Pt	-1.284618	1.081085	-2.834541	Pt	2.731671	-1.461683	-0.827372
Pt	1.407918	-1.024564	2.661091	Pt	0.136380	-3.417192	2.240383
Pt	-1.378595	-3.808426	0.210692	Pt	-2.704594	-0.914877	-2.800093
Pt	2.099560	1.834056	-1.726076	Pt	1.521755	-1.336542	2.627961
Pt	-1.751415	-0.341972	-0.632112	Pt	-2.923475	-0.223963	2.847452
Pt	-1.162220	3.823169	0.905120	Pt	1.970839	2.132830	-1.293591
Pt	-0.916441	-2.499891	-1.859791	Pt	2.390230	-3.120328	1.082611
Pt	-0.644558	0.358991	1.677822	Pt	-0.719231	-2.304000	-2.127094
Pt	0.781018	2.552362	1.811560	Pt	-2.917634	-2.623006	-0.917197
Pt	2.324447	-2.984513	1.423616	Pt	1.741836	0.420794	0.673092
Pt	-2.165257	-1.819584	1.490708	Pt	-2.701978	1.524057	1.032523
Ni	-3.612652	1.111721	-1.621001	Pt	0.648844	-0.088518	-1.705001
Ni	-3.323823	-2.396805	-0.800966	Ni	1.345614	-3.586459	-1.246120
Ni	-0.986579	-1.129256	3.732927	Ni	-2.390751	3.169233	-0.989514
Ni	-0.457380	-1.103747	-3.991535	Ni	3.003735	2.643681	1.030439
Ni	-2.074854	3.163034	-1.464337	Ni	-3.664807	0.974130	-1.303051
Ni	-2.981724	0.271434	2.781186	Ni	-0.846424	-3.969265	-0.095155
Ni	1.067542	-3.780587	-0.737281	Ni	-0.860434	-1.526351	3.726699
Ni	-1.539540	2.375125	3.040723	Ni	0.921031	1.626788	-3.611817
Ni	0.467905	1.038963	3.911090	Ni	-3.959543	-0.726766	0.512533
Ni	-2.795233	-1.020875	-2.898598	Ni	0.311646	-1.755817	0.248441
Ni	1.079000	0.948617	-3.984769	Ni	2.973281	0.252949	-2.773511
Ni	1.489589	-2.478170	-2.910484	Ni	-0.577947	0.016531	1.752287
Ni	3.772241	-0.817954	1.523334	Ni	2.772893	0.946615	2.965487
Ni	2.772594	1.194642	2.757356	Ni	1.659880	-1.936148	-3.174266
Ni	4.045542	0.501189	-0.657933	Ni	0.973143	4.003835	0.201850
Ni	-0.103581	-3.142599	2.404782	Ni	-0.088056	3.476201	-2.121386
Ni	0.241530	-1.731964	0.392937	Ni	0.483163	0.564989	4.038593
Ni	2.992242	-0.336216	-2.861623	Ni	3.821771	-0.917683	1.476474
Ni	-4.068184	-0.327399	0.516702	Ni	-0.382575	-0.570075	-4.043240
Ni	3.097515	2.604709	0.576867	Ni	4.024256	0.774318	-0.474908
Ni	1.098762	3.869154	-0.424853	Ni	-1.342334	3.727241	1.330476
Ni	-0.247594	1.786460	-0.503775	Ni	-1.653370	-0.399230	-0.453328

Coordinates for Pt18Ni20				Coordinates for Pt19Ni19			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	2.160514	0.473240	2.743236	Pt	1.201209	1.988712	0.526869
Pt	2.168345	-1.218498	-2.122354	Pt	3.715894	1.730152	-0.231856
Pt	0.873603	1.353417	-1.385147	Pt	2.383639	-2.095050	1.215115
Pt	-2.052787	-0.963747	0.790568	Pt	-2.215091	-2.822740	-1.414744
Pt	-0.106759	-0.810591	-3.171350	Pt	-2.084980	-2.404192	1.190247
Pt	2.962820	-1.891103	2.108300	Pt	1.344101	-0.887747	-2.871729
Pt	0.369848	-1.398107	1.907583	Pt	1.117793	1.630965	3.083399
Pt	-2.026086	-2.191387	-1.670095	Pt	-1.468594	1.804014	0.512009
Pt	2.549887	2.137449	0.698226	Pt	2.598995	-2.489696	-1.387952
Pt	-0.824553	1.605987	-3.400254	Pt	0.146503	-2.076022	-0.447361
Pt	1.822939	-2.881491	0.104604	Pt	2.970474	0.416218	1.862611
Pt	-3.916842	-0.657642	-1.063727	Pt	2.000078	1.818079	-2.090106
Pt	3.469619	0.836086	-1.420310	Pt	0.195105	-2.977704	2.028017
Pt	-3.219286	1.437787	0.262742	Pt	-3.019160	0.001849	1.829277
Pt	-1.461109	2.856580	-1.151163	Pt	-3.915159	1.202225	-0.274327
Pt	-2.442364	0.832953	2.587216	Pt	-2.207316	1.527003	-2.113524
Pt	-0.207189	0.432180	3.617810	Pt	-1.176382	-1.062115	-2.885757
Pt	0.614757	3.560695	0.034527	Pt	-0.204271	3.072979	-1.424996
Ni	2.687199	3.274616	-1.610373	Pt	-1.365035	1.459202	3.069581
Ni	0.714215	2.626941	2.505531	Ni	-1.207675	-1.147954	3.318046
Ni	1.845053	0.914202	-3.662848	Ni	-0.067759	1.270641	-3.549135
Ni	-0.793336	-3.241945	0.443228	Ni	-3.652463	-0.634217	-2.261361
Ni	-4.453007	-0.528986	1.511610	Ni	2.033396	-0.221288	-0.430790
Ni	-3.400613	1.655065	-2.347388	Ni	-0.027937	0.505990	-1.199826
Ni	1.130900	-3.751105	2.450440	Ni	1.522691	-4.267574	0.119958
Ni	0.368584	-3.156224	-2.043441	Ni	0.242688	-3.289677	-2.643724
Ni	-1.809827	-1.641856	3.270051	Ni	3.730603	-0.123445	-2.220271
Ni	4.266802	0.280372	1.187854	Ni	-1.977877	-0.498791	-0.453115
Ni	-3.594567	-2.903875	0.271634	Ni	-4.189202	-1.479120	0.004714
Ni	-0.252325	0.978627	0.911012	Ni	4.353437	-0.888130	0.052256
Ni	-2.647424	-0.417632	-3.448448	Ni	2.260656	3.958360	-0.654475
Ni	0.075067	-1.157295	-0.629560	Ni	-0.921006	-4.436632	0.106363
Ni	2.021769	-0.293475	0.312622	Ni	-2.776019	3.609915	-0.682512
Ni	0.493488	3.667921	-2.621849	Ni	-3.449517	2.603845	1.901946
Ni	-1.545217	3.032065	1.463748	Ni	0.008673	-0.228673	1.354020
Ni	-1.555286	0.347857	-1.336674	Ni	-0.258542	3.588676	1.916700
Ni	1.417319	-1.581505	4.218248	Ni	3.037604	3.052633	1.938049
Ni	4.028412	-1.614565	-0.370376	Ni	1.318191	-0.973213	3.332101

Coordinates for Pt20Ni18				Coordinates for Pt21Ni17			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.670222	-1.062459	-3.358787	Pt	-2.255122	-2.866866	-0.278409
Pt	2.379319	-0.160973	0.417647	Pt	-1.168337	-1.934515	3.804459
Pt	2.805356	-0.095122	3.003910	Pt	0.817241	-0.964733	-3.386576
Pt	-0.235616	1.449968	-3.862990	Pt	1.778603	2.728801	0.572052
Pt	-1.937834	-0.199111	0.802259	Pt	-1.608897	-3.758062	2.044419
Pt	-1.679331	0.000736	3.442768	Pt	0.154848	-3.575645	0.087312
Pt	0.276145	2.906277	-1.828190	Pt	3.721364	-1.032602	-0.266182
Pt	1.922319	2.038618	1.957085	Pt	-2.541639	1.420264	-1.978294
Pt	2.261388	2.006773	-3.185455	Pt	-2.567758	3.207462	-0.087062
Pt	2.548495	-2.567587	-0.399083	Pt	-1.322901	0.564739	3.077838
Pt	-0.941138	2.130328	2.318746	Pt	-0.180252	1.314506	-3.112204
Pt	2.499025	2.218059	-0.610130	Pt	0.842415	-3.135501	2.566876
Pt	1.489343	-2.189225	-2.609943	Pt	-0.887221	2.800032	1.758929
Pt	-2.659654	-1.326557	-1.623525	Pt	-2.212957	0.689990	0.619484
Pt	-3.633935	1.006825	-0.856190	Pt	1.812375	-2.373656	-1.566951
Pt	-2.237857	-2.792953	0.358393	Pt	-0.669248	-0.686878	-1.113495
Pt	1.783845	-2.258358	2.003804	Pt	0.995117	-0.671115	3.237121
Pt	1.671319	-0.251043	-4.251255	Pt	1.553228	2.960171	-1.924247
Pt	-1.964197	2.645089	0.067923	Pt	2.908615	0.639772	1.433695
Pt	-0.839744	-2.265080	2.346173	Pt	-3.389358	-0.811654	-1.118220
Ni	-3.353936	-1.687384	2.489567	Pt	1.692054	0.392951	-1.221357
Ni	0.696337	1.210841	4.102851	Ni	2.731520	-3.462681	0.603985
Ni	0.213669	1.286465	0.185096	Ni	-0.822485	-1.417115	1.342849
Ni	0.409128	-0.099351	2.033332	Ni	0.356789	0.646943	1.095310
Ni	-0.783347	-3.148257	-1.783936	Ni	-3.139516	-1.432118	1.842635
Ni	-2.245578	2.756733	-2.507689	Ni	1.428184	-1.395186	0.715811
Ni	4.289695	1.281788	1.234971	Ni	-1.114719	3.603599	-2.336987
Ni	4.250285	-1.589857	1.396104	Ni	2.337787	1.219858	-3.649208
Ni	-2.776834	0.511245	-3.449282	Ni	-0.098650	4.342442	-0.192263
Ni	3.343260	-0.318152	-2.012614	Ni	-0.394024	1.949004	-0.673097
Ni	-3.474208	1.459018	1.894550	Ni	1.181747	1.906505	3.037504
Ni	-4.350488	-1.166073	0.315290	Ni	3.428969	-0.807685	-2.814402
Ni	0.095244	-1.383245	-0.234888	Ni	3.793050	1.711736	-0.821131
Ni	0.283055	-3.719771	0.451223	Ni	-3.351467	2.217867	2.287583
Ni	0.682044	-1.269550	4.180765	Ni	3.206214	-1.761380	2.360148
Ni	1.045974	0.245928	-1.797332	Ni	-4.501311	1.438252	-0.225877
Ni	-1.231403	0.742638	-1.570253	Ni	-1.868817	-0.737871	-3.354955
Ni	0.426021	3.691547	0.638938	Ni	-0.645167	-2.929358	-2.367348

Coordinates for Pt22Ni16				Coordinates for Pt23Ni15			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.795511	1.432795	2.794352	Pt	-0.692806	1.509913	2.777039
Pt	-0.971267	3.852466	-1.061452	Pt	-0.649257	3.951841	-1.090264
Pt	-0.739841	-2.307715	2.181458	Pt	-0.935169	-2.225148	2.195525
Pt	-2.528192	1.948078	-0.484405	Pt	-2.390960	2.153910	-0.507854
Pt	0.905371	-0.263837	1.689602	Pt	-1.631794	-0.034986	0.828020
Pt	-1.580158	3.478284	1.396022	Pt	2.655417	1.567393	1.145350
Pt	2.531566	1.775561	1.154180	Pt	-1.311794	3.601771	1.382920
Pt	0.795133	-1.405761	-2.851238	Pt	0.868201	-0.321553	1.690850
Pt	-2.459986	-1.764348	-1.111961	Pt	0.701361	-1.504314	-2.838849
Pt	-1.614228	-0.166607	0.833028	Pt	-1.772959	-3.668166	0.182636
Pt	-1.470630	-3.794093	0.160269	Pt	3.350830	1.854536	-1.347360
Pt	3.159923	2.144076	-1.345970	Pt	2.450619	0.361916	-3.242759
Pt	-0.886237	0.266462	-1.678688	Pt	0.932316	2.230796	-2.263429
Pt	2.373280	0.605558	-3.252365	Pt	0.622284	-3.956775	1.108731
Pt	0.716523	2.305355	-2.229286	Pt	2.448170	-2.167234	0.557913
Pt	0.948141	-3.894959	1.066798	Pt	1.065001	3.252698	2.255515
Pt	2.623299	-1.960050	0.524378	Pt	-1.569867	2.460866	-2.960593
Pt	0.814218	3.314486	2.289550	Pt	1.536063	-2.465944	2.982517
Pt	1.749609	-2.356595	2.952522	Pt	3.129773	-1.728659	-1.926642
Pt	3.244939	-1.435860	-1.962830	Pt	-1.080156	-3.257403	-2.243001
Pt	-0.824290	-3.313303	-2.264081	Pt	4.075761	-0.235121	-0.054402
Pt	4.078795	0.108694	-0.079741	Pt	-0.856219	0.317412	-1.692071
Ni	-4.073470	-0.082066	0.072310	Pt	-2.596338	-1.580414	-1.108060
Ni	0.037843	1.786462	0.268869	Ni	-4.073504	0.234131	0.057756
Ni	-0.118056	0.696382	-4.121428	Ni	-0.035344	-1.788111	-0.300796
Ni	1.707558	1.239639	3.616807	Ni	-0.028448	0.660779	-4.140540
Ni	-3.375927	0.337352	-2.354764	Ni	1.783204	1.127894	3.610833
Ni	-1.810587	2.291808	-2.993097	Ni	-3.339544	0.586363	-2.381331
Ni	-2.393038	-0.583851	3.249841	Ni	-2.447981	-0.369601	3.246606
Ni	-3.208204	-2.162146	1.350824	Ni	-3.380527	-1.895413	1.356070
Ni	1.550769	0.164351	-0.790670	Ni	1.354037	-3.595735	-1.374411
Ni	0.108931	-1.777316	-0.314420	Ni	-1.814627	-1.132918	-3.590081
Ni	-1.738681	-1.246413	-3.590519	Ni	0.166148	1.786354	0.239455
Ni	3.397324	-0.343905	2.446810	Ni	1.564018	0.029245	-0.788888
Ni	1.478547	3.796702	-0.182937	Ni	3.341110	-0.598592	2.469351
Ni	0.036462	-0.690596	4.090385	Ni	1.795316	3.654640	-0.214158
Ni	-3.266711	1.497509	1.970738	Ni	-3.151628	1.759743	1.953696
Ni	1.636455	-3.450364	-1.416865	Ni	-0.037861	-0.658648	4.094957

Coordinates for Pt24Ni14				Coordinates for Pt25Ni13			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.810156	1.419004	2.828145	Pt	-3.071600	0.635560	0.935573
Pt	-0.755132	3.953964	-0.979972	Pt	3.077473	-0.645220	-0.942228
Pt	-0.901414	-2.326677	2.111150	Pt	-2.053458	-2.128342	-1.399975
Pt	-2.455065	2.084412	-0.490960	Pt	-1.142537	-1.213018	0.941950
Pt	2.604413	1.635253	1.241352	Pt	2.048236	2.153643	1.413112
Pt	-1.491470	3.519701	1.453514	Pt	2.232365	0.494766	3.435295
Pt	0.796969	-1.396661	-2.865676	Pt	1.740825	3.689008	-0.664697
Pt	0.851264	-0.344561	1.701408	Pt	2.409251	-3.140742	-1.113412
Pt	-1.647849	-0.115251	0.796686	Pt	-1.690629	1.993960	-3.152292
Pt	-1.658898	-3.730049	0.040929	Pt	-3.249744	2.277829	-1.127949
Pt	4.086445	-0.111898	0.005118	Pt	-2.085199	1.585567	3.147543
Pt	3.323585	1.991211	-1.247971	Pt	0.378407	2.254161	3.430386
Pt	0.728808	-3.974212	0.993646	Pt	-2.421152	3.134636	1.123894
Pt	2.491203	0.531647	-3.191763	Pt	-0.241866	-0.256212	3.244856
Pt	0.899952	2.319135	-2.174504	Pt	3.599284	1.914852	-0.662804
Pt	0.908026	3.282869	2.365849	Pt	-0.789373	3.043505	-0.947493
Pt	2.511399	-2.111818	0.534680	Pt	1.688388	-2.003473	3.156413
Pt	-1.595012	2.496767	-2.914059	Pt	2.076270	-1.599493	-3.145933
Pt	1.563606	-2.524543	2.928236	Pt	-3.579368	-1.881071	0.635655
Pt	3.216290	-1.572691	-1.922324	Pt	1.140746	1.198733	-0.954870
Pt	-0.934531	-3.225382	-2.357397	Pt	0.814540	-3.010160	0.953228
Pt	-2.521817	-1.630468	-1.201981	Pt	0.232313	0.237577	-3.264829
Pt	-0.833765	0.341445	-1.690797	Pt	3.260990	-2.263691	1.130687
Pt	1.657638	1.192382	3.633807	Pt	-0.393993	-2.275896	-3.406605
Ni	0.018991	0.781399	-4.117262	Pt	-2.240070	-0.506058	-3.431286
Ni	-4.083677	0.094537	-0.018046	Ni	0.071749	3.848331	1.382310
Ni	-3.311107	0.546635	-2.429583	Ni	-1.366943	0.409771	-1.093690
Ni	-0.074800	-0.778835	4.081117	Ni	-0.474777	1.337596	1.088952
Ni	-3.342445	-2.046731	1.235432	Ni	0.474936	-1.334823	-1.091237
Ni	0.104554	1.788739	0.315200	Ni	2.744129	0.977336	-2.985926
Ni	1.495189	-3.512441	-1.460423	Ni	-0.092297	-3.828327	-1.338217
Ni	-1.712045	-1.082325	-3.651851	Ni	3.840784	0.263277	1.387115
Ni	3.317437	-0.564644	2.518675	Ni	-1.703752	-3.720739	0.672453
Ni	1.579524	0.105027	-0.755300	Ni	0.850529	2.784318	-2.989267
Ni	0.029322	-1.781454	-0.352612	Ni	1.367346	-0.402329	1.094257
Ni	1.693259	3.715494	-0.090486	Ni	-0.848320	-2.794333	2.962282
Ni	-3.258232	1.585658	1.939458	Ni	-3.853265	-0.241020	-1.401229
Ni	-2.490441	-0.553866	3.188605	Ni	-2.750218	-0.989479	2.977979

Coordinates for Pt26Ni12				Coordinates for Pt27Ni11			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-1.026604	1.234963	2.861395	Pt	0.165965	-2.646346	-1.939306
Pt	-3.418639	-2.118942	0.899819	Pt	1.951555	1.374399	-3.359237
Pt	-1.069642	-2.425283	1.935583	Pt	2.426362	2.442872	2.270590
Pt	-2.450239	2.132101	-0.536232	Pt	0.430075	2.723286	-1.783404
Pt	2.480159	1.543659	1.496194	Pt	-0.440298	-2.712977	1.789403
Pt	1.026603	-1.234965	-2.861393	Pt	-2.985845	-2.518980	1.356591
Pt	-1.683544	3.407931	1.619699	Pt	3.832708	-1.554111	0.558372
Pt	0.698504	-0.434357	1.719636	Pt	-1.521271	-3.793076	-0.325639
Pt	3.088966	-0.741594	2.639124	Pt	-2.765318	2.686678	1.492092
Pt	-0.698505	0.434355	-1.719634	Pt	-0.582230	1.410315	-3.794060
Pt	3.418638	2.118941	-0.899818	Pt	-1.258695	1.430001	-0.187144
Pt	1.789374	3.703999	0.255168	Pt	0.581707	-1.394563	3.800204
Pt	2.749785	0.719335	-2.950428	Pt	-1.951623	-1.353343	3.386920
Pt	1.069641	2.425281	-1.935582	Pt	2.965037	-0.106919	-1.448447
Pt	2.450238	-2.132102	0.536234	Pt	-0.811286	-1.149405	-3.876265
Pt	0.710296	3.149298	2.522143	Pt	-2.381567	-2.431870	-2.330215
Pt	-1.382334	2.649746	-2.850367	Pt	-2.340556	0.204776	-2.296066
Pt	1.382333	-2.649748	2.850368	Pt	1.250009	-1.440085	0.182066
Pt	3.384164	-1.506515	-1.830201	Pt	1.465311	3.833062	0.319085
Pt	-0.710297	-3.149300	-2.522141	Pt	-2.956017	0.098567	1.453428
Pt	-2.480160	-1.543661	-1.496193	Pt	0.822371	1.171177	3.848225
Pt	-1.789375	-3.704001	-0.255167	Pt	2.354723	-0.211945	2.290375
Pt	-2.749786	-0.719337	2.950430	Pt	3.007877	2.527412	-1.287110
Pt	1.683543	-3.407933	-1.619698	Pt	3.954265	1.072772	0.663296
Pt	-3.088967	0.741592	-2.639123	Pt	2.743354	-2.710021	-1.489477
Pt	-3.384165	1.506513	1.830202	Pt	-0.175594	2.649533	1.930619
Ni	-0.622015	3.983907	-0.697403	Pt	-3.804088	1.525460	-0.553371
Ni	-0.009597	-1.748364	-0.420443	Ni	-3.886161	-1.115875	-0.656273
Ni	1.406738	0.925126	3.817669	Ni	-1.757729	1.248604	3.468547
Ni	0.331170	1.017994	-4.032781	Ni	-0.309570	-0.019216	1.765688
Ni	0.009596	1.748362	0.420445	Ni	0.304815	0.016158	-1.768270
Ni	-4.081543	0.115897	-0.269183	Ni	2.156042	-2.830995	2.179702
Ni	4.081543	-0.115898	0.269185	Ni	1.319239	1.178865	0.237419
Ni	-1.678715	-0.139299	0.629420	Ni	1.094792	-4.030935	0.101872
Ni	-0.331171	-1.017995	4.032783	Ni	-1.339637	-1.179151	-0.242044
Ni	1.678714	0.139298	-0.629419	Ni	1.760047	-1.238659	-3.464552
Ni	-1.406739	-0.925128	-3.817668	Ni	-1.147628	4.021153	-0.108861
Ni	0.622014	-3.983908	0.697405	Ni	-2.171143	2.823381	-2.184753

Coordinates for Pt28Ni10				Coordinates for Pt29Ni9			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	2.722304	-1.836455	-0.133949	Pt	2.805188	-1.720633	-0.103077
Pt	-1.587010	3.386451	-1.633099	Pt	-1.747005	3.328407	-1.714406
Pt	1.807921	0.656397	3.656627	Pt	1.793791	0.816726	3.633535
Pt	2.897458	2.208387	1.884963	Pt	2.807874	2.373744	1.823484
Pt	0.302426	2.301834	2.346353	Pt	0.210650	2.361394	2.290571
Pt	1.207525	-3.825268	-0.855505	Pt	1.388599	-3.789452	-0.779728
Pt	-0.714146	0.605389	4.071848	Pt	-0.722323	0.665783	4.062205
Pt	-4.074017	-0.261605	-0.635836	Pt	-4.048147	-0.448231	-0.688337
Pt	4.074017	0.261605	0.635835	Pt	4.062706	0.452360	0.614096
Pt	-1.207524	3.825268	0.855505	Pt	-1.359844	3.799905	0.788974
Pt	1.587010	-3.386451	1.633098	Pt	1.738971	-3.281560	1.702720
Pt	-1.807921	-0.656397	-3.656627	Pt	-3.085271	1.197121	-2.462847
Pt	-0.939964	-3.451143	2.007178	Pt	-0.781609	-3.440940	2.108356
Pt	-2.600948	-1.901399	0.717657	Pt	-2.508894	-2.006375	0.770616
Pt	0.427748	-1.436709	2.924782	Pt	0.503486	-1.351005	2.959997
Pt	-1.163700	0.202733	1.551255	Pt	1.194885	3.925743	0.424157
Pt	1.357654	3.858945	0.514141	Pt	-1.160660	0.181465	1.553532
Pt	-1.357653	-3.858945	-0.514140	Pt	-1.161797	-3.945958	-0.396845
Pt	1.163700	-0.202733	-1.551255	Pt	-0.211811	-2.375262	-2.286309
Pt	-0.302426	-2.301834	-2.346353	Pt	1.168602	-0.192590	-1.546221
Pt	0.939964	3.451143	-2.007177	Pt	0.799793	3.453097	-2.085042
Pt	-0.427749	1.436710	-2.924782	Pt	-0.507842	1.365461	-2.953275
Pt	-2.722304	1.836455	0.133949	Pt	-2.798374	1.733292	0.094928
Pt	0.714145	-0.605389	-4.071848	Pt	0.690095	-0.676483	-4.046311
Pt	3.736716	-0.170015	-1.861315	Pt	3.736491	-0.050250	-1.871528
Pt	2.600948	1.901399	-0.717657	Pt	2.511022	1.991981	-0.770738
Pt	-2.897457	-2.208388	-1.884963	Pt	-1.859807	-0.799652	-3.600535
Pt	-3.736716	0.170015	1.861315	Pt	-3.731785	0.033619	1.838245
Ni	-2.185839	-1.462047	3.285885	Pt	-2.792284	-2.440940	-1.803668
Ni	-2.310476	2.245371	2.707868	Ni	-2.398665	2.191207	2.663142
Ni	-0.043470	1.735954	-0.259481	Ni	2.395786	-2.199384	-2.671643
Ni	3.002795	-1.306570	2.423354	Ni	0.128825	-1.736020	0.306294
Ni	1.440655	0.192295	1.055601	Ni	1.435434	0.278691	1.045005
Ni	2.185839	1.462048	-3.285885	Ni	-0.129963	1.734459	-0.306959
Ni	0.043470	-1.735954	0.259481	Ni	3.066162	-1.122608	2.439492
Ni	-3.002795	1.306570	-2.423354	Ni	2.102672	1.468350	-3.327168
Ni	2.310476	-2.245370	-2.707869	Ni	-2.112524	-1.475393	3.327944
Ni	-1.440655	-0.192295	-1.055601	Ni	-1.422428	-0.300068	-1.032653

Coordinates for Pt30Ni8				Coordinates for Pt31Ni7			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.699191	-1.379507	-1.215553	Pt	-3.021747	-0.926273	-0.953997
Pt	-3.195773	-0.514559	-0.742465	Pt	3.113061	2.483184	-1.138270
Pt	-0.916040	2.892453	-2.800579	Pt	0.455016	-3.927249	-1.301607
Pt	-0.158597	-3.899180	-1.489554	Pt	1.550976	2.119349	-3.194581
Pt	1.535014	2.056334	-3.236867	Pt	3.905667	0.008564	-1.359483
Pt	-3.302443	-2.126029	1.303794	Pt	0.220735	-0.179276	3.293487
Pt	0.875110	3.042667	-0.883954	Pt	-3.103960	-2.460545	1.152633
Pt	2.430091	1.300354	3.089031	Pt	-3.905214	-0.016029	1.356497
Pt	-1.852381	2.183737	1.633585	Pt	-2.224940	2.013064	1.387485
Pt	-3.776676	0.383581	1.665943	Pt	-3.741737	1.589750	-0.715149
Pt	-3.572426	2.055911	-0.348676	Pt	-0.404407	-1.484553	-1.188665
Pt	3.266442	2.103433	-1.325289	Pt	-0.217703	0.174641	-3.287855
Pt	-0.468284	0.344379	-3.259997	Pt	-2.334297	0.329215	3.373915
Pt	0.432279	-0.366984	3.238510	Pt	-0.587082	-3.108760	0.943429
Pt	-0.911114	-3.065273	0.862458	Pt	-1.554515	-2.123232	3.188482
Pt	-2.026622	0.436541	3.560330	Pt	2.012044	1.754950	3.224114
Pt	1.816370	-2.206331	-1.655081	Pt	0.396372	1.471995	1.184539
Pt	1.580479	-3.796224	0.429676	Pt	-2.001365	-1.725305	-3.215953
Pt	3.740670	-0.406175	-1.687444	Pt	-0.436437	3.949799	1.315926
Pt	-2.466102	-1.322958	-3.110521	Pt	0.578018	3.122595	-0.958958
Pt	0.122586	3.876580	1.468051	Pt	2.149095	3.414880	1.170298
Pt	-1.616485	3.773621	-0.451180	Pt	-2.012508	3.532746	-0.742460
Pt	1.990616	-0.459141	-3.581829	Pt	2.339080	-0.327434	-3.378000
Pt	0.880037	-2.915062	2.779081	Pt	2.001069	-3.544042	0.741557
Pt	3.159761	0.491959	0.720968	Pt	3.040541	0.915153	0.960173
Pt	2.860658	-1.224904	2.693919	Pt	-1.019849	2.658254	-2.994581
Pt	0.663181	1.356903	1.194063	Pt	2.764033	-0.749019	2.980067
Pt	-1.571015	-2.078936	3.215371	Pt	1.006776	-2.666893	2.985529
Pt	3.536418	-2.078506	0.327174	Pt	3.738927	-1.607600	0.714105
Pt	-2.896664	1.202301	-2.715416	Pt	2.218372	-2.009100	-1.389343
Ni	2.632564	3.057004	1.092565	Pt	-2.773797	0.736235	-2.979664
Ni	1.254871	0.389551	-1.185640	Ni	-1.312459	-0.518213	1.088019
Ni	-0.005053	-2.240807	-3.572558	Ni	-2.156355	-3.414754	-1.160849
Ni	-1.290876	-0.412151	1.164147	Ni	-1.152890	1.028687	-0.900899
Ni	-1.095475	1.191644	-0.767644	Ni	1.315673	0.521485	-1.088369
Ni	-0.030957	2.218211	3.551061	Ni	1.150895	-1.036467	0.894514
Ni	1.059466	-1.214248	0.746154	Ni	0.582159	-2.342341	-3.441235
Ni	-2.668576	-3.079608	-1.114057	Ni	-0.577247	2.342539	3.435152

Coordinates for Pt32Ni6				Coordinates for Pt33Ni5			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-1.153854	0.224994	1.528733	Pt	-0.041716	-0.775514	3.231565
Pt	-1.635331	3.399210	-1.694755	Pt	-0.647814	3.232588	-0.376344
Pt	2.754658	-1.825816	-0.090208	Pt	-2.300887	-1.755918	-1.598890
Pt	1.872608	0.718526	3.619592	Pt	-1.944044	-3.645347	0.191907
Pt	2.870106	2.334299	1.846411	Pt	1.782365	-1.160604	-3.549162
Pt	1.153854	-0.224994	-1.528733	Pt	-1.794349	1.163000	3.544169
Pt	1.258115	-3.832390	-0.818050	Pt	2.999515	-0.691690	-1.256484
Pt	-0.711909	0.662326	4.071761	Pt	-3.691571	-1.772009	0.629509
Pt	4.065064	0.306281	0.711209	Pt	-1.478779	0.726994	-0.995815
Pt	-3.045866	1.313237	-2.468562	Pt	0.751800	1.681518	3.708767
Pt	1.635331	-3.399210	1.694755	Pt	4.046409	-0.181736	1.130930
Pt	-1.872608	-0.718526	-3.619592	Pt	2.083424	-3.087506	-1.818479
Pt	-0.940761	-3.444608	2.104924	Pt	2.558775	-0.228025	3.331155
Pt	3.749791	-0.138002	-1.855998	Pt	-3.231652	2.625729	-0.557091
Pt	0.285128	2.350463	2.307356	Pt	3.230399	-2.638026	0.536099
Pt	1.290513	3.904192	0.439289	Pt	-2.994505	0.689904	1.252181
Pt	-1.290513	-3.904192	-0.439289	Pt	0.648266	-3.239337	0.375215
Pt	-2.592634	-1.936379	0.737954	Pt	-0.467822	-3.598737	-1.987603
Pt	0.466180	-1.408443	2.968981	Pt	1.738347	-2.682591	2.732657
Pt	0.940761	3.444608	-2.104924	Pt	0.029195	0.768776	-3.215881
Pt	-0.285128	-2.350463	-2.307356	Pt	-1.709746	2.688470	-2.715328
Pt	0.711909	-0.662326	-4.071761	Pt	-4.035105	0.168891	-1.101613
Pt	-0.466180	1.408443	-2.968981	Pt	-0.865880	-3.167136	2.518850
Pt	-4.065064	-0.306281	-0.711209	Pt	0.460301	3.605981	1.979509
Pt	-2.754658	1.825816	0.090208	Pt	-0.740266	-1.678331	-3.687184
Pt	-2.870106	-2.334299	-1.846411	Pt	-2.606632	-1.279389	2.951275
Pt	2.592634	1.936379	-0.737954	Pt	0.863646	3.163677	-2.531651
Pt	-1.258115	3.832390	0.818050	Pt	-2.088486	3.087022	1.810425
Pt	-2.171742	-1.404662	3.309925	Pt	3.687157	1.766179	-0.640799
Pt	3.045866	-1.313237	2.468562	Pt	2.595056	1.272879	-2.958072
Pt	2.171742	1.404662	-3.309925	Pt	1.942958	3.650195	-0.205981
Pt	-3.749791	0.138002	1.855998	Pt	2.311475	1.774237	1.598513
Ni	1.435569	0.247771	1.047069	Pt	1.473780	-0.727924	0.987181
Ni	2.336702	-2.241212	-2.673352	Ni	-2.562455	0.241117	-3.316022
Ni	-0.072113	1.759342	-0.317450	Ni	1.100991	1.196821	-0.767207
Ni	-1.435569	-0.247771	-1.047069	Ni	-0.326000	1.156926	1.336599
Ni	0.072113	-1.759342	0.317450	Ni	-1.105803	-1.194283	0.764235
Ni	-2.336702	2.241212	2.673352	Ni	0.329654	-1.156800	-1.331134

Coordinates for Pt34Ni4				Coordinates for Pt35Ni3			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.027813	-0.433417	3.295644	Pt	-0.055337	-0.426079	3.337220
Pt	-0.778202	3.151610	-0.715274	Pt	-0.719114	3.179736	-0.715704
Pt	-2.226856	-2.026600	-1.408503	Pt	-2.262632	-2.019365	-1.440562
Pt	-1.794139	-3.686746	0.585683	Pt	0.396819	-1.356573	-1.284082
Pt	1.863589	-1.447631	-3.403744	Pt	-1.868351	-3.710167	0.576720
Pt	-1.863589	1.447631	3.403744	Pt	1.903148	-1.484516	-3.444594
Pt	3.032874	-0.691590	-1.171863	Pt	-1.887334	1.501448	3.444548
Pt	-3.621071	-1.843325	0.810686	Pt	3.042116	-0.734399	-1.162679
Pt	-1.494768	0.559600	-1.056405	Pt	-3.703081	-1.802031	0.789266
Pt	0.657791	2.093282	3.514640	Pt	-0.384052	1.367319	1.284884
Pt	4.042745	0.104412	1.152821	Pt	0.693673	2.116739	3.573177
Pt	2.218522	-3.170089	-1.481851	Pt	3.990187	0.046964	1.167227
Pt	2.544035	0.230834	3.340404	Pt	2.230206	-3.243112	-1.481807
Pt	-3.333388	2.431178	-0.813375	Pt	-1.756417	2.304316	-2.973019
Pt	3.333388	-2.431178	0.813375	Pt	-3.240270	2.450007	-0.833333
Pt	-3.032874	0.691590	1.171863	Pt	3.258628	-2.433378	0.829598
Pt	0.778203	-3.151610	0.715275	Pt	-3.057450	0.753194	1.174302
Pt	-0.303831	-3.812457	-1.589633	Pt	0.739486	-3.198635	0.722367
Pt	1.834679	-2.304756	3.000956	Pt	-0.349841	-3.861748	-1.613600
Pt	0.027813	0.433417	-3.295644	Pt	-1.135677	-1.198159	0.929368
Pt	-1.834679	2.304756	-3.000956	Pt	0.068058	0.433851	-3.305402
Pt	-4.042746	-0.104412	-1.152821	Pt	1.772953	-2.284996	2.965874
Pt	-0.744757	-2.920132	2.843473	Pt	-3.967276	-0.030154	-1.169771
Pt	0.303831	3.812457	1.589633	Pt	-0.797407	-2.943416	2.882704
Pt	-0.657791	-2.093282	-3.514640	Pt	0.366976	3.874103	1.609227
Pt	-2.568967	-1.073741	3.066197	Pt	-0.676477	-2.101326	-3.575982
Pt	0.744757	2.920132	-2.843473	Pt	-2.634468	-1.037738	3.097146
Pt	-2.218522	3.170089	1.481851	Pt	0.808035	2.912839	-2.838743
Pt	3.621071	1.843325	-0.810686	Pt	-2.213003	3.258526	1.479011
Pt	2.568967	1.073741	-3.066197	Pt	3.659712	1.792662	-0.784204
Pt	1.794139	3.686746	-0.585683	Pt	1.859222	3.664539	-0.576249
Pt	2.226856	2.026600	1.408503	Pt	2.610676	1.043234	-3.048451
Pt	1.494768	-0.559600	1.056405	Pt	2.254954	2.011476	1.427012
Pt	-2.544035	-0.230834	-3.340404	Pt	2.505742	0.192891	3.306484
Ni	1.060137	1.156688	-0.887324	Pt	-2.487393	-0.176258	-3.310221
Ni	-0.378985	1.278081	1.213277	Ni	1.418187	-0.538991	1.006732
Ni	-1.060137	-1.156688	0.887324	Ni	1.088625	1.145867	-0.879909
Ni	0.378985	-1.278081	-1.213277	Ni	-1.391298	0.564618	-1.017414

Coordinates for Pt36Ni2				Coordinates for Pt37Ni1			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.029127	-0.417918	3.347088	Pt	-3.095474	0.766885	1.149059
Pt	-0.724542	3.210935	-0.737189	Pt	-0.414495	1.408441	1.237220
Pt	-2.302163	-2.026091	-1.404813	Pt	3.110227	-0.781316	-1.150380
Pt	0.369486	-1.369279	-1.279506	Pt	1.907199	-1.625527	-3.374818
Pt	-1.142917	-1.198178	0.952202	Pt	-1.921558	1.613687	3.388723
Pt	1.850668	-1.520580	-3.456148	Pt	2.278066	2.128999	1.373004
Pt	-1.850668	1.520580	3.456148	Pt	-3.644703	-1.794854	0.868112
Pt	3.055831	-0.766925	-1.205085	Pt	0.657840	2.264581	3.488172
Pt	-3.713798	-1.786521	0.839424	Pt	4.032687	0.131090	1.178707
Pt	0.735716	2.123437	3.555042	Pt	2.248792	-3.299432	-1.336092
Pt	3.995530	0.025332	1.126692	Pt	-1.808010	2.177614	-3.107764
Pt	2.190828	-3.269069	-1.483920	Pt	-3.325668	2.406933	-0.935395
Pt	-1.787698	2.289250	-2.966109	Pt	3.313852	-2.419207	0.945638
Pt	-3.248491	2.454512	-0.810557	Pt	-0.060767	-0.296430	3.376214
Pt	3.248491	-2.454512	0.810557	Pt	-0.330474	-3.950777	-1.435951
Pt	-3.055831	0.766925	1.205085	Pt	-1.498582	0.512487	-1.085276
Pt	0.724542	-3.210935	0.737189	Pt	-0.779316	3.200273	-0.870799
Pt	-0.394824	-3.874643	-1.585355	Pt	1.796817	-2.192671	3.121441
Pt	0.029127	0.417918	-3.347088	Pt	-4.048845	-0.144432	-1.168659
Pt	1.787698	-2.289250	2.966109	Pt	-0.781157	-2.798196	2.969649
Pt	-3.995530	-0.025332	-1.126692	Pt	0.317465	3.934228	1.445759
Pt	-0.787249	-2.932156	2.910547	Pt	0.396343	-1.427275	-1.221484
Pt	0.394824	3.874643	1.585355	Pt	-0.669666	-2.276826	-3.477932
Pt	-0.735716	-2.123437	-3.555042	Pt	-2.602634	-0.933618	3.100588
Pt	-2.614625	-1.015416	3.132852	Pt	0.052849	0.289963	-3.394182
Pt	-0.369486	1.369279	1.279506	Pt	0.774810	2.831435	-3.010070
Pt	0.787250	2.932156	-2.910547	Pt	-2.260613	3.287162	1.346332
Pt	-2.190828	3.269069	1.483920	Pt	1.137490	1.180457	-0.986337
Pt	3.713798	1.786521	-0.839424	Pt	3.695735	1.807968	-0.866413
Pt	1.888692	3.705640	-0.619009	Pt	1.837759	3.709917	-0.732853
Pt	2.614625	1.015416	-3.132852	Pt	1.480433	-0.531323	1.101013
Pt	2.302163	2.026091	1.404813	Pt	2.632782	0.929480	-3.143627
Pt	2.534735	0.190596	3.282245	Pt	2.519502	0.358865	3.354358
Pt	-2.534735	-0.190596	-3.282245	Pt	-2.269484	-2.121838	-1.355610
Pt	-1.888692	-3.705640	0.619009	Pt	-2.531324	-0.371114	-3.344111
Pt	1.142917	1.198178	-0.952202	Pt	0.765222	-3.185159	0.871545
Ni	-1.422146	0.556718	-1.006455	Pt	-1.823227	-3.659432	0.737172
Ni	1.422146	-0.556718	1.006455	Ni	-1.089871	-1.131039	0.945045

Coordinates for Pt38Ni0			
Atom	X	Y	Z
Pt	-3.136990	0.697693	1.172268
Pt	3.136989	-0.697697	-1.172271
Pt	0.429120	-1.375198	-1.280953
Pt	1.947786	-1.479235	-3.430686
Pt	-1.947790	1.479228	3.430683
Pt	2.257709	2.120118	1.452437
Pt	0.625554	2.157746	3.564331
Pt	-0.429121	1.375196	1.280953
Pt	4.037860	0.147895	1.193920
Pt	2.303318	-3.218938	-1.443883
Pt	-1.820047	2.270327	-3.047080
Pt	-3.348385	2.405350	-0.868480
Pt	3.348387	-2.405351	0.868475
Pt	-0.066974	-0.414630	3.394897
Pt	-0.270030	-3.897449	-1.577526
Pt	-0.812306	3.232443	-0.770189
Pt	1.820057	-2.270324	3.047079
Pt	-4.037862	-0.147895	-1.193922
Pt	1.134530	1.237048	-0.947991
Pt	-0.753423	-2.948876	2.913430
Pt	0.270025	3.897449	1.577529
Pt	-0.625561	-2.157746	-3.564329
Pt	-1.498281	0.542854	-1.084725
Pt	-2.637296	-1.074149	3.105228
Pt	0.066976	0.414629	-3.394897
Pt	0.753434	2.948875	-2.913428
Pt	-2.303322	3.218933	1.443880
Pt	3.682307	1.887683	-0.792986
Pt	1.798442	3.762414	-0.601185
Pt	1.498282	-0.542855	1.084724
Pt	2.637298	1.074141	-3.105230
Pt	2.509525	0.282921	3.372523
Pt	-2.257711	-2.120117	-1.452436
Pt	-1.134529	-1.237050	0.947991
Pt	-2.509525	-0.282917	-3.372523
Pt	0.812309	-3.232444	0.770189
Pt	-1.798441	-3.762414	0.601191
Pt	-3.682309	-1.887685	0.792985

Coordinates for PtNi(N=55)

Coordinates for Pt0Ni55				Coordinates for Pt1Ni54			
Atom	X	Y	Z	Atom	X	Y	Z
Ni	-1.103036	-2.070474	-0.225000	Pt	0.862180	-3.840369	1.611342
Ni	0.040072	-1.424969	1.876708	Ni	-0.795540	-1.983155	1.015899
Ni	-1.973872	-0.008181	-1.287608	Ni	-0.551813	-1.681678	-3.721598
Ni	-3.165303	-2.138372	-1.556063	Ni	0.282017	2.342047	-3.386234
Ni	3.492422	-1.711267	-1.373922	Ni	1.612250	-1.654670	0.510460
Ni	0.086634	0.399869	-4.104352	Ni	1.057377	-0.604977	4.643895
Ni	3.165303	2.138372	1.556063	Ni	-1.645000	-4.033996	2.070431
Ni	3.438879	-1.958399	1.162707	Ni	-1.636434	3.690867	0.854950
Ni	4.021328	0.016668	2.623217	Ni	0.016705	1.938688	1.339536
Ni	1.973872	0.008181	1.287608	Ni	3.304698	-3.358727	1.031400
Ni	-2.042898	-1.721455	3.142653	Ni	-0.519329	0.300125	-2.278895
Ni	1.902722	1.074454	3.498329	Ni	-0.283838	-2.352839	3.392756
Ni	0.124286	-1.036267	-2.113026	Ni	0.000668	-0.002986	0.001253
Ni	-4.127363	-0.506085	2.400287	Ni	-1.297089	-0.054347	3.913234
Ni	-1.536157	3.032853	2.335621	Ni	2.109459	0.776026	0.708407
Ni	-0.273577	4.096771	0.393355	Ni	1.643050	-3.701463	-0.852492
Ni	2.788978	-3.895053	-0.320609	Ni	-2.189662	-2.782777	-2.111947
Ni	0.273576	-4.096771	-0.393355	Ni	0.833496	4.027828	0.336467
Ni	-3.438879	1.958399	-1.162707	Ni	1.294750	0.065588	-3.918119
Ni	-0.040072	1.424969	-1.876708	Ni	-1.779997	0.245404	1.524880
Ni	3.218845	2.385504	-0.980566	Ni	-3.484786	1.948552	1.045793
Ni	4.127364	0.506085	-2.400286	Ni	-3.825720	0.906376	-1.255634
Ni	1.093501	3.595861	-1.699159	Ni	-0.014385	-1.945779	-1.333082
Ni	-1.902722	-1.074454	-3.498329	Ni	4.000672	0.555875	-0.844382
Ni	1.103036	2.070474	0.225000	Ni	-2.706816	-0.480325	-3.078116
Ni	-2.247191	-4.218132	-0.458387	Ni	-2.111365	-0.767527	-0.711975
Ni	-2.788978	3.895053	0.320608	Ni	2.194864	-2.014680	2.872431
Ni	-0.253205	2.111165	4.304822	Ni	0.033668	3.952080	2.728860
Ni	0.000000	0.000000	-0.000000	Ni	-0.837060	3.728478	-1.564391
Ni	-1.093501	-3.595862	1.699159	Ni	2.187358	2.794126	2.107290
Ni	-0.081637	2.903059	-3.823377	Ni	1.617411	4.026373	-2.062894
Ni	1.368972	-1.911890	-0.157371	Ni	-1.814210	2.248209	2.947299
Ni	1.449523	-3.432722	1.768730	Ni	-4.302409	-1.563810	-1.451521
Ni	-3.492422	1.711267	1.373922	Ni	-1.058598	0.613207	-4.644364
Ni	-3.218845	-2.385504	0.980567	Ni	1.811485	-2.236921	-2.951864
Ni	-2.211978	0.810489	3.385759	Ni	3.826462	-0.891256	1.250017
Ni	1.006867	3.195993	2.405193	Ni	-2.993645	-2.818302	0.306436
Ni	2.025920	0.248412	-1.178183	Ni	0.550452	1.687731	3.719056
Ni	1.536157	-3.032853	-2.335622	Ni	3.622946	-0.482588	-3.115206

Ni	2.071801	-1.457490	3.255222	Ni	-0.835645	-4.039625	-0.332168
Ni	-2.025920	-0.248412	1.178183	Ni	2.986575	2.831412	-0.312668
Ni	-4.114700	-0.263965	-0.112569	Ni	-2.652388	-1.775139	2.610050
Ni	-1.449523	3.432722	-1.768731	Ni	2.704062	0.491509	3.073314
Ni	4.114700	0.263965	0.112569	Ni	-1.607178	1.648851	-0.508574
Ni	-2.071801	1.457490	-3.255222	Ni	-0.035643	-3.946124	-2.734347
Ni	-1.006867	-3.195993	-2.405193	Ni	-3.627021	0.500731	3.107590
Ni	-1.368972	1.911890	0.157371	Ni	3.485201	-1.934420	-1.053595
Ni	0.081637	-2.903059	3.823376	Ni	-3.275432	3.358859	-1.035801
Ni	-4.021329	-0.016668	-2.623217	Ni	0.520786	-0.309864	2.279505
Ni	2.247191	4.218132	0.458387	Ni	-2.187908	2.005086	-2.867753
Ni	2.211978	-0.810489	-3.385759	Ni	1.778090	-0.236907	-1.528444
Ni	0.253206	-2.111165	-4.304822	Ni	4.298338	1.581954	1.443908
Ni	2.042899	1.721455	-3.142652	Ni	2.645638	1.789237	-2.614091
Ni	-0.124286	1.036267	2.113026	Ni	0.793308	1.976339	-1.012480
Ni	-0.086634	-0.399869	4.104352	Ni	-4.005058	-0.536312	0.836173

Coordinates for Pt2Ni53				Coordinates for Pt3Ni52			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.723112	-3.138399	2.792482	Pt	-1.301606	-3.733005	1.656832
Pt	-2.037762	-3.655397	0.809936	Pt	-2.339515	-1.909738	3.042069
Ni	-0.468633	4.036866	-0.741956	Pt	-3.353058	-2.538579	0.828990
Ni	0.442837	2.227311	0.647919	Ni	0.364493	0.473880	-4.091734
Ni	2.816798	-2.973890	0.482966	Ni	1.671520	1.043793	3.623967
Ni	-2.114723	-0.424745	-0.948085	Ni	3.375504	-1.949554	1.349754
Ni	1.431129	-3.518818	-1.606682	Ni	3.854979	0.014098	2.869837
Ni	3.114378	2.469741	-2.709227	Ni	-0.370757	-0.468255	4.082138
Ni	-3.202772	-2.408940	2.751986	Ni	0.278657	-0.991909	-2.121671
Ni	-4.037686	0.830059	-0.072566	Ni	3.054661	2.142961	1.782263
Ni	-2.786837	3.012074	-0.507107	Ni	-4.325937	-0.511196	2.126445
Ni	-3.688384	2.510855	1.791045	Ni	-1.692615	3.002512	2.266402
Ni	2.026487	3.535307	-0.699226	Ni	-0.309433	4.101657	0.424714
Ni	0.537471	-4.075826	0.706468	Ni	2.833498	-3.867669	-0.198697
Ni	-0.101585	-0.867752	-4.722306	Ni	-1.080529	-2.079685	-0.322986
Ni	1.529329	1.214311	-1.330778	Ni	0.313133	-4.092551	-0.416565
Ni	-0.882133	-4.544564	-1.328387	Ni	-3.356607	1.970114	-1.366921
Ni	-3.750558	-1.689747	0.398291	Ni	0.083787	1.460398	-1.859417
Ni	-1.809123	1.706462	3.288196	Ni	3.271129	2.424541	-0.740276
Ni	-1.809137	1.236554	0.877198	Ni	4.281549	0.571886	-2.123361
Ni	-1.828402	3.460308	-2.793186	Ni	1.192688	3.634682	-1.579012
Ni	0.507267	2.730711	3.049154	Ni	-1.375560	1.914013	0.086117
Ni	-1.406165	3.555035	1.575002	Ni	-3.053213	-2.132550	-1.775020
Ni	-3.097097	1.313263	-2.386373	Ni	1.391175	-1.899523	-0.097385
Ni	-0.046565	-0.424883	-2.317520	Ni	1.894043	0.010335	1.405531
Ni	4.053225	-0.796035	0.054700	Ni	0.001399	0.001637	-0.001106
Ni	0.101791	0.872710	4.715980	Ni	-2.189999	-4.263350	-0.724271
Ni	-0.896296	1.700686	-1.371548	Ni	-2.809989	3.894676	0.180256
Ni	-0.976271	1.306264	-3.793322	Ni	-0.538793	2.056354	4.302111
Ni	0.648576	2.993431	-2.777171	Ni	2.103782	0.284286	-1.044268
Ni	-3.447492	0.051334	2.272687	Ni	1.713411	-2.980778	-2.279433
Ni	0.000313	0.000096	-0.000234	Ni	0.164318	2.969079	-3.784829
Ni	-4.306046	-0.860711	-1.931218	Ni	1.332408	-3.460155	1.809026
Ni	-2.226808	-0.879858	-3.355976	Ni	-3.570142	1.693619	1.153812
Ni	0.901293	4.533785	1.323304	Ni	3.592280	-1.663118	-1.172620
Ni	0.050153	0.426612	2.316637	Ni	-2.433803	0.732927	3.249612
Ni	1.843327	-3.472752	2.781720	Ni	0.838364	3.174621	2.502878
Ni	1.823513	-1.672890	-3.307800	Ni	-0.080605	-1.459297	1.860354
Ni	-0.436217	-2.235320	-0.633381	Ni	1.877322	-1.478084	3.352085
Ni	3.094689	-1.304690	2.377203	Ni	-0.264810	1.009512	2.112770

Ni	-0.502167	-2.719188	-3.047009	Ni	-2.104487	-0.280922	1.043635
Ni	1.820521	-1.204659	-0.893064	Ni	-1.337530	3.463786	-1.820140
Ni	0.944751	-1.338685	3.782910	Ni	4.107474	0.293517	0.377137
Ni	2.630228	2.724553	1.645428	Ni	-1.654562	-1.019829	-3.638542
Ni	2.225874	0.871200	3.358853	Ni	-1.850911	1.506096	-3.369165
Ni	-1.547947	-1.187732	1.336192	Ni	-0.814063	-3.147921	-2.524568
Ni	3.749135	1.688120	-0.392401	Ni	-1.881933	0.006195	-1.418214
Ni	0.888102	-1.714518	1.363747	Ni	-0.104196	-2.969241	3.830088
Ni	3.710649	-2.452787	-1.820949	Ni	-3.831929	0.013173	-2.888461
Ni	2.116596	0.425801	0.944618	Ni	2.198485	4.231153	0.656787
Ni	3.443098	0.008384	-2.285344	Ni	1.081790	2.079596	0.319727
Ni	1.520250	0.811591	-3.753651	Ni	2.445401	-0.737695	-3.252006
Ni	4.310557	0.867363	1.931388	Ni	0.562069	-2.028944	-4.320243
Ni	-1.525650	-0.814782	3.753543	Ni	2.244250	1.787426	-2.982472
Ni	-2.626767	-2.743217	-1.603089	Ni	-4.096987	-0.298976	-0.381953

Coordinates for Pt4Ni51				Coordinates for Pt5Ni50			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-3.827037	1.555802	1.129406	Pt	-3.794085	0.506315	1.867262
Pt	-4.231305	-0.296684	-0.484330	Pt	-0.731697	3.297652	-2.635786
Pt	-3.511849	2.005780	-1.380689	Pt	-2.579486	1.635935	-3.001896
Pt	-1.553819	3.532199	-1.779865	Pt	-0.337041	1.279791	-4.083632
Ni	3.675945	-1.525667	-1.145945	Pt	-3.313279	-1.879056	1.914872
Ni	0.447700	0.595448	-4.058735	Ni	0.780970	1.394640	-1.750092
Ni	2.956089	2.153347	1.922114	Ni	-0.629629	3.307572	2.365141
Ni	3.420025	-1.905356	1.356086	Ni	-0.809144	4.042569	-0.092688
Ni	3.805421	0.009158	2.952043	Ni	2.581798	-1.542127	2.852339
Ni	-0.994847	-2.094693	-0.420234	Ni	-2.960928	3.590754	-1.335809
Ni	-2.205026	-1.966290	2.871344	Ni	-0.786062	-1.383334	1.760387
Ni	1.586416	0.942744	3.701065	Ni	3.191849	1.892612	-1.805983
Ni	1.463979	-1.860520	-0.129697	Ni	0.652373	2.182296	0.604948
Ni	1.873237	0.001460	1.450014	Ni	-0.181215	1.336271	3.908745
Ni	1.011843	2.088924	0.415443	Ni	-2.797057	2.818914	1.082380
Ni	0.005548	-0.002817	0.001013	Ni	-2.316614	-0.471092	0.006795
Ni	-4.307611	-0.815012	2.063091	Ni	-1.493139	-3.662295	1.202191
Ni	-1.851868	2.834082	2.368699	Ni	1.068016	0.246056	2.099134
Ni	-0.455380	4.064124	0.556463	Ni	2.929646	-3.560981	1.385059
Ni	-0.324399	0.905826	2.155208	Ni	1.322135	4.447414	1.231523
Ni	2.970747	-3.784878	-0.266135	Ni	3.865086	-1.328027	0.669216
Ni	0.475847	-4.065417	-0.562652	Ni	2.586514	-2.130926	-3.443400
Ni	-1.860007	0.010389	-1.457012	Ni	0.816754	-4.051363	0.095327
Ni	0.056725	1.518785	-1.807665	Ni	-1.574197	-2.830854	3.579605
Ni	3.205127	2.538554	-0.588718	Ni	1.450044	3.682460	-1.182509
Ni	4.306551	0.763832	-2.008186	Ni	-2.567654	2.109751	3.491128
Ni	1.061700	3.721051	-1.431714	Ni	4.724041	0.931825	-0.049451
Ni	-1.532975	-0.985198	-3.693343	Ni	-1.300768	-4.464201	-1.200964
Ni	-1.449994	1.859254	0.162407	Ni	1.769471	2.503468	2.775314
Ni	-2.031227	-4.262808	-0.853664	Ni	2.321206	0.454998	-0.021438
Ni	-2.110538	-0.380641	0.992243	Ni	-3.859303	1.311951	-0.671842
Ni	-2.958244	3.875478	0.359353	Ni	0.650040	-3.327705	-2.349339
Ni	-0.666251	1.852946	4.381264	Ni	-3.047770	-2.736932	-0.563023
Ni	-1.081440	-3.721588	1.419385	Ni	-1.037527	-0.244218	-2.115439
Ni	0.361075	-0.932291	-2.138876	Ni	1.655523	2.854527	-3.560019
Ni	0.131864	3.090713	-3.689595	Ni	0.001699	-0.001442	0.002325
Ni	1.447252	-3.480935	1.717397	Ni	0.323076	-1.177594	3.954256
Ni	-3.213369	-2.522919	0.568160	Ni	-1.437410	1.750078	-0.680699
Ni	4.093693	0.392965	0.475990	Ni	-2.141932	-0.565219	-4.319162
Ni	-0.391561	-0.633443	4.065431	Ni	0.234880	-1.310407	-3.914895

Ni	2.118667	0.369856	-0.985631	Ni	1.441175	-1.747359	0.684808
Ni	0.693406	3.087162	2.638462	Ni	1.272531	-1.045493	-1.692075
Ni	1.863202	-2.868238	-2.333852	Ni	-1.723108	-2.519322	-2.758603
Ni	1.869831	-1.564100	3.344933	Ni	-2.057979	-0.355274	3.621659
Ni	-0.041606	-1.529230	1.801748	Ni	3.688833	-0.604689	-1.767530
Ni	-2.955110	-2.139636	-1.909053	Ni	3.052494	2.720444	0.591917
Ni	-1.840873	1.531074	-3.399365	Ni	3.479440	0.728198	2.127927
Ni	-0.660782	-3.115505	-2.629505	Ni	-0.637986	-2.194654	-0.582921
Ni	-0.099611	-3.110370	3.669269	Ni	-3.444806	-0.715500	-2.168234
Ni	-3.784603	-0.018934	-3.016551	Ni	2.175331	0.507718	4.269249
Ni	2.053068	4.255013	0.851321	Ni	-1.268693	1.017792	1.717145
Ni	2.543805	-0.574224	-3.214407	Ni	0.682250	-3.221280	2.491267
Ni	0.725498	-1.898587	-4.359398	Ni	2.782037	-2.874926	-1.037153
Ni	2.240020	1.943961	-2.862593	Ni	-4.761568	-0.966945	-0.021805
Ni	-2.522952	0.556045	3.218054	Ni	2.090862	0.361213	-3.545529

Coordinates for Pt6Ni49				Coordinates for Pt7Ni48			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	1.328724	2.452204	-3.250082	Pt	-2.827900	2.547223	-1.945932
Pt	1.028376	0.129225	-4.166132	Pt	-1.562091	1.257720	-3.776863
Pt	0.447482	3.939634	1.618916	Pt	-3.422434	0.126759	-2.567158
Pt	-0.309217	2.458736	3.505698	Pt	-3.140890	-1.953881	2.145012
Pt	3.102746	0.711757	-2.872528	Pt	-3.042220	2.914690	0.531227
Pt	-1.980335	3.327343	1.841767	Pt	-1.335621	-3.668045	1.783082
Ni	-1.211260	4.685249	-0.232159	Pt	-1.116319	-1.983031	3.634953
Ni	-3.410438	-0.975243	-2.114139	Ni	0.384805	2.753231	3.044101
Ni	-4.588011	0.984890	-1.029211	Ni	0.656521	-2.084136	-0.902243
Ni	-1.336098	0.821872	1.782463	Ni	-0.985437	-3.927605	-0.835036
Ni	1.507593	0.549922	3.811745	Ni	-1.269173	4.268094	1.843161
Ni	2.246274	-0.511383	0.507627	Ni	-4.677255	1.274982	-0.609484
Ni	2.745686	2.983982	0.726449	Ni	1.402674	0.069935	-1.904804
Ni	2.733039	-1.748610	-3.616826	Ni	4.597529	-1.316430	0.635086
Ni	-1.077978	-3.879194	0.989951	Ni	1.324602	-4.237592	-1.847699
Ni	-2.765220	1.632815	3.646374	Ni	1.009062	0.595981	2.055539
Ni	1.057491	1.424468	1.566716	Ni	1.012205	1.866916	-3.543964
Ni	3.355792	3.032033	-1.737255	Ni	2.733155	-2.457039	1.896063
Ni	-2.920850	2.855731	-0.588676	Ni	-0.404102	0.533200	4.077366
Ni	-1.243229	-2.449477	3.096213	Ni	2.263263	-0.645331	0.311762
Ni	2.228353	2.891293	3.196364	Ni	-1.603043	-1.740910	0.078034
Ni	-0.917267	1.826766	-4.400391	Ni	0.007348	-0.000938	0.001416
Ni	1.334013	-0.829378	-1.780549	Ni	2.040415	1.218863	4.182427
Ni	1.072319	3.858833	-0.984755	Ni	-2.672838	-2.362652	-2.062853
Ni	-0.416008	0.883965	-2.155815	Ni	-0.983026	-0.592272	-2.067521
Ni	-0.933723	-0.064493	4.031766	Ni	0.402382	-0.517161	-4.083354
Ni	-3.990676	-1.024293	0.369951	Ni	1.051683	-3.949391	0.661462
Ni	4.574676	-1.032881	1.041454	Ni	-3.738562	0.598613	1.640128
Ni	-0.500988	-3.827241	-1.494425	Ni	-0.337407	-2.758742	-3.042076
Ni	-2.771441	-2.994412	-0.698241	Ni	-2.254432	0.627119	-0.318714
Ni	-1.065602	-1.435916	-1.549051	Ni	1.637561	1.713470	-0.066720
Ni	-1.627350	-1.486406	0.866857	Ni	1.413013	-1.191284	3.705672
Ni	-3.314742	-3.019310	1.764280	Ni	2.987141	-2.805984	-0.613147
Ni	3.682945	-1.351982	-1.311254	Ni	-3.302975	-3.549007	0.098863
Ni	1.956466	-3.210903	-1.710009	Ni	3.117173	1.826242	-2.030188
Ni	2.737367	-1.446866	2.732250	Ni	3.996588	1.095912	0.251315
Ni	1.026600	-3.284550	2.300603	Ni	-0.392394	1.766841	-1.532363
Ni	1.633842	1.467974	-0.876959	Ni	2.845013	0.135192	-3.876844
Ni	0.275534	-2.304052	-3.427323	Ni	3.349991	-0.053350	2.436948
Ni	1.178592	-4.667802	0.197433	Ni	0.864231	-3.594046	3.157207

Ni	0.576544	-2.295012	0.098146	Ni	0.397064	-1.758865	1.548707
Ni	-2.756883	1.409560	-2.713477	Ni	2.101932	-2.066645	-2.894710
Ni	-0.589871	2.288844	-0.081762	Ni	3.326186	3.488920	-0.137396
Ni	-2.254403	0.482117	-0.500158	Ni	-0.624356	2.096313	0.895576
Ni	3.988416	0.985998	-0.391717	Ni	-2.850543	-0.074308	3.917122
Ni	0.415261	-0.904397	2.146289	Ni	-0.758230	3.628089	-3.129715
Ni	3.406836	0.929352	2.116596	Ni	1.305593	3.557366	-1.648975
Ni	-0.000940	-0.003387	0.000865	Ni	1.049635	3.905759	0.873306
Ni	-2.172295	-2.915593	-3.149627	Ni	-1.998149	-1.261450	-4.235795
Ni	-1.012904	3.251586	-2.317735	Ni	-3.966166	-1.128054	-0.254638
Ni	-3.041815	-0.694817	2.706732	Ni	3.758312	-0.601727	-1.636411
Ni	0.851162	-1.838620	4.362880	Ni	2.711380	2.375650	2.043455
Ni	-1.509480	-0.556707	-3.810011	Ni	-1.003491	3.991562	-0.654663
Ni	2.906876	-2.875860	0.625349	Ni	-1.386556	-0.065082	1.915557
Ni	-3.679983	1.362635	1.308532	Ni	-2.090848	2.110316	2.854715

Coordinates for Pt8Ni47				Coordinates for Pt9Ni46			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	3.660462	-1.923827	1.130919	Pt	-0.146964	4.164873	1.037201
Pt	-3.210521	-2.512272	1.255971	Pt	1.515570	-3.780209	1.348384
Pt	-2.047431	-1.180591	-3.572860	Pt	-0.118873	-2.985065	3.085255
Pt	4.282782	0.233901	-0.001872	Pt	2.263146	3.582756	0.628644
Pt	3.646575	-1.766698	-1.380257	Pt	2.214531	-2.053702	3.038309
Pt	-2.239420	1.318103	-3.415187	Pt	0.467674	-1.173868	-4.104497
Pt	-0.120548	0.273248	-4.279382	Pt	1.833108	0.910442	-3.770399
Pt	-1.149575	-3.620728	1.926541	Pt	1.184558	3.003131	2.825437
Ni	2.020308	0.076193	1.244393	Pt	2.732469	-1.316934	-3.025307
Ni	-1.951428	-1.583116	3.347597	Ni	0.249610	-0.544653	2.296970
Ni	0.083849	-1.357252	1.943490	Ni	-3.975029	0.949433	0.669400
Ni	1.394173	-1.908480	-0.108712	Ni	-1.355294	3.401419	3.201697
Ni	1.980651	1.245503	3.412818	Ni	-0.385143	1.190396	3.939388
Ni	-1.504004	3.126926	2.271093	Ni	-0.641232	1.679024	1.554184
Ni	-0.308348	4.116526	0.257794	Ni	-3.737121	0.237428	-1.768600
Ni	-4.167301	-0.149838	-2.482559	Ni	-0.585336	1.121490	-4.696490
Ni	1.093397	2.094505	0.131804	Ni	-1.990451	-0.403520	1.219656
Ni	2.806098	-3.947046	-0.239963	Ni	-2.480842	-2.721520	1.907369
Ni	0.274830	-4.114163	-0.226068	Ni	-1.150573	-2.819231	-2.806038
Ni	-2.025184	-0.068014	-1.235895	Ni	-1.882617	1.323296	-0.562983
Ni	-3.496554	1.888354	-1.152292	Ni	-2.572315	3.091140	1.013594
Ni	-0.120712	1.369569	-1.932761	Ni	0.497756	-1.060547	4.712568
Ni	3.194215	2.371242	-1.132684	Ni	3.608616	2.206027	2.374576
Ni	-2.236079	-4.308217	-0.319455	Ni	1.976173	0.399790	-1.239396
Ni	1.013965	3.554467	-1.837284	Ni	3.703768	-0.267007	1.787714
Ni	0.042828	-0.221255	4.133244	Ni	0.201831	-4.021454	-0.933447
Ni	1.510418	-3.358354	1.870519	Ni	-2.703473	1.289752	2.845344
Ni	-1.096590	-2.091128	-0.140326	Ni	-0.443158	-2.248643	0.626892
Ni	-3.472225	1.730267	1.412734	Ni	-0.003962	-0.000114	-0.000356
Ni	1.040470	3.311038	2.266928	Ni	0.184660	2.831098	-3.005823
Ni	0.200324	-2.755447	3.955764	Ni	4.081243	0.837492	-2.483820
Ni	2.007131	0.228244	-1.238064	Ni	-1.758810	-1.085459	-1.157869
Ni	-0.160209	2.297629	4.238781	Ni	-0.944909	-4.607800	1.238002
Ni	1.535741	-3.087927	-2.251851	Ni	-2.057882	-0.578823	-3.553790
Ni	2.220892	4.262583	0.259658	Ni	-2.208437	1.910427	-2.922551
Ni	2.186785	-1.325405	3.243444	Ni	2.566456	-3.079201	-1.014957
Ni	-2.130344	0.952056	3.427258	Ni	-1.485035	3.675941	-1.194937
Ni	-0.206144	2.844906	-3.933659	Ni	-4.047703	-0.814064	2.480037
Ni	-4.114445	-0.345659	0.052916	Ni	-1.775325	-0.986476	3.608436
Ni	-1.556912	3.354691	-1.863278	Ni	-2.262014	-3.411234	-0.561216

Ni	-1.050745	-3.267664	-2.304964	Ni	1.865957	-1.338057	0.573566
Ni	1.911881	1.630141	-3.272460	Ni	3.863159	-2.703640	1.137376
Ni	-1.993118	-0.236794	1.268549	Ni	3.946105	-0.955111	-0.707919
Ni	0.195947	-2.297460	-4.270035	Ni	0.426410	2.252892	-0.614571
Ni	-2.825326	3.887147	0.264276	Ni	-3.827649	2.687566	-1.150355
Ni	-0.001478	0.002477	0.003198	Ni	2.474460	2.716031	-1.896983
Ni	-1.389111	1.911601	0.131566	Ni	0.867527	4.594230	-1.311971
Ni	4.079675	0.496995	-2.575865	Ni	1.741723	1.102543	1.162745
Ni	-4.066350	-0.451690	2.570425	Ni	0.626531	-1.669914	-1.566490
Ni	0.079190	-1.096906	-2.097878	Ni	-3.848862	-1.526981	0.070362
Ni	2.138108	-0.900444	-3.421523	Ni	1.269372	-3.456172	-3.166133
Ni	-3.201409	-2.226658	-1.394523	Ni	3.814430	1.559387	-0.059559
Ni	-0.081951	1.128156	2.084130	Ni	-0.264332	0.529943	-2.301102
Ni	4.111243	0.178939	2.585978	Ni	2.053396	0.571881	3.543279
Ni	3.211524	2.217627	1.389870	Ni	-3.576895	-2.210421	-2.348841

Coordinates for Pt10Ni45				Coordinates for Pt11Ni44			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	3.351777	-2.073607	1.652869	Pt	-2.197089	2.294228	2.881627
Pt	0.279105	-0.145081	-4.284535	Pt	-1.504575	-0.432025	-3.995321
Pt	-3.550389	-2.086169	1.179087	Pt	3.590329	-2.053271	1.174688
Pt	1.954380	-1.183238	3.621851	Pt	-3.883548	1.114655	1.436417
Pt	-3.446578	-2.174359	-1.334159	Pt	-0.512418	-2.643963	-3.337421
Pt	-0.094867	0.126129	4.255822	Pt	-2.813411	-2.011103	-2.541360
Pt	2.268875	1.152963	-3.464255	Pt	2.202308	2.753067	-2.404261
Pt	2.283658	-1.356505	-3.362741	Pt	1.734192	-3.745000	1.170839
Pt	1.316041	-3.324082	2.356002	Pt	-2.736156	-0.126985	3.295683
Pt	-4.284738	-0.104895	-0.181037	Pt	1.999491	-2.177101	3.118528
Ni	-2.214079	-1.164344	3.298270	Pt	0.984080	4.081764	-0.768598
Ni	-1.245176	-2.015752	0.014027	Ni	-1.570591	1.725941	0.442013
Ni	-1.202238	-3.409386	-1.996206	Ni	-0.717585	3.871755	1.283874
Ni	2.491221	4.126602	-0.062570	Ni	-3.507322	1.917289	-1.048649
Ni	1.946698	1.469379	3.392363	Ni	1.845727	-0.168471	1.492120
Ni	-0.172945	2.699530	4.003672	Ni	3.227616	-3.507536	-0.940587
Ni	-0.094767	-1.183748	2.051318	Ni	-1.845019	0.141519	-1.493023
Ni	0.091710	1.178531	-2.067515	Ni	0.945314	-0.953668	-4.669415
Ni	-1.966724	-0.051916	-1.332834	Ni	-3.038659	-2.793696	-0.030029
Ni	1.266638	-1.992373	0.131141	Ni	-0.847849	-3.985234	0.686965
Ni	-3.425661	2.080349	1.051320	Ni	3.111082	2.802706	0.043170
Ni	0.096117	-1.301457	-1.980121	Ni	1.764180	4.167884	1.692667
Ni	3.421258	-2.074017	-1.041488	Ni	2.110092	0.709474	-0.828593
Ni	3.268225	2.160254	1.317408	Ni	2.752457	1.933056	2.400650
Ni	2.072055	-0.018011	-1.159769	Ni	-4.054485	-0.544787	-0.664426
Ni	1.158879	3.451283	1.976046	Ni	3.774913	-0.285501	3.065286
Ni	1.946242	0.072019	1.356825	Ni	0.437427	-0.474327	-2.285967
Ni	1.401148	-3.375588	-1.912944	Ni	2.616637	0.270062	-3.184315
Ni	-1.256481	2.004953	-0.124226	Ni	3.782027	-1.059515	-1.280235
Ni	-1.914847	-1.400106	-3.391565	Ni	-0.042823	-3.767473	3.069449
Ni	-0.000710	0.005688	-0.002543	Ni	-0.020716	1.832815	-1.510100
Ni	1.224492	2.031019	-0.033687	Ni	-0.438104	0.488584	2.281304
Ni	3.379559	2.056173	-1.241302	Ni	0.742671	-3.857435	-1.310122
Ni	-2.496046	-4.164099	0.035814	Ni	0.010459	-1.839276	1.501020
Ni	-2.176543	1.378191	3.233939	Ni	-2.176681	-2.554118	2.408897
Ni	-0.030112	4.142465	-0.163952	Ni	4.062018	0.501086	0.684321
Ni	-1.895112	1.141238	-3.497189	Ni	-0.449254	-1.390156	3.875054
Ni	0.169100	-2.718583	-4.019723	Ni	0.444277	1.401968	-3.882745
Ni	-1.385089	3.409354	1.885568	Ni	1.583057	-1.717216	-0.429253
Ni	4.003488	0.181760	2.742532	Ni	-1.743582	-4.212291	-1.678653

Ni	-3.995778	-0.080135	-2.762016	Ni	-4.319999	-1.427528	1.697769
Ni	-4.218237	0.104611	2.405182	Ni	-0.849439	0.991256	4.678475
Ni	4.266141	-0.047857	-2.318085	Ni	0.406236	2.603008	3.184913
Ni	-1.360041	-3.285830	2.122693	Ni	0.871326	2.053560	0.815980
Ni	-1.213150	3.262689	-2.231831	Ni	-1.589129	3.665122	-1.100177
Ni	-2.073460	0.039475	1.157207	Ni	-0.069162	3.756647	-3.108432
Ni	2.579835	-4.099381	0.225731	Ni	2.045662	-2.244503	-2.801410
Ni	-0.245984	-2.450162	4.233524	Ni	4.298626	1.410889	-1.693159
Ni	-2.553929	4.075997	-0.250893	Ni	-1.907453	2.010651	-3.086610
Ni	1.360191	3.275621	-2.160336	Ni	-2.111877	-0.671558	0.842971
Ni	0.145546	2.447460	-4.207304	Ni	1.450273	0.295762	3.867840
Ni	0.050393	-4.118328	0.173628	Ni	-3.792007	0.337875	-3.027657
Ni	-0.079727	1.321020	1.970759	Ni	-0.853134	-2.044903	-0.846609
Ni	-3.318738	1.989104	-1.480629	Ni	0.002512	0.001636	-0.000049
Ni	4.119376	0.015153	0.220855	Ni	-3.202922	3.554382	0.854654

Coordinates for Pt12Ni43				Coordinates for Pt13Ni42			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	1.322664	-3.192616	2.545016	Pt	-2.096749	-1.589692	-3.396590
Pt	0.019109	4.041258	1.444724	Pt	-0.661712	4.240263	0.088589
Pt	-1.189101	-3.162137	2.646936	Pt	-3.131017	-2.617472	-1.354091
Pt	-2.073498	3.756784	0.080780	Pt	0.595842	3.739707	-2.032311
Pt	-1.990380	2.910610	2.446654	Pt	0.136595	-0.144485	4.285411
Pt	4.284357	-0.019628	-0.251545	Pt	-2.091672	0.767668	3.649138
Pt	3.409186	-0.512311	-2.556236	Pt	3.722712	-1.508817	-1.495019
Pt	-3.533522	-0.544546	-2.374249	Pt	4.251316	0.581099	-0.200867
Pt	0.144217	-1.523418	4.009707	Pt	3.849524	-1.585700	1.013093
Pt	-1.563020	-0.874882	-3.900116	Pt	-0.713045	-3.617682	2.127639
Pt	-2.299483	-2.734844	-2.377475	Pt	-1.694378	-1.770875	3.512073
Pt	3.469473	1.855721	-1.714180	Pt	-0.964733	-3.522244	-2.246521
Ni	3.463336	0.470511	2.210074	Pt	-1.884718	3.349852	-1.917408
Ni	1.431283	0.773137	3.801865	Ni	-3.960506	-0.752823	2.703035
Ni	-0.142001	-3.040209	-3.791696	Ni	-3.536305	1.458709	1.545682
Ni	-4.094682	2.421856	1.004077	Ni	3.111016	-3.715985	-0.277198
Ni	1.185066	0.657727	-1.951699	Ni	3.080107	2.503735	1.189699
Ni	2.050065	1.155376	0.329333	Ni	-0.000053	0.001943	-0.003362
Ni	-2.045688	-1.158666	-0.344641	Ni	0.580807	-4.089119	-0.146618
Ni	-0.000000	0.000000	-0.000001	Ni	1.927038	4.468983	0.066348
Ni	-4.133041	0.032701	0.131993	Ni	1.989954	1.472263	3.314894
Ni	0.207249	3.002828	3.818384	Ni	-3.666409	1.604898	-1.057626
Ni	1.970148	-2.721800	-2.410569	Ni	0.086589	-1.170689	-2.066289
Ni	0.082045	1.484155	1.853826	Ni	1.539696	-1.801435	-0.138394
Ni	-1.171771	-0.665343	1.957136	Ni	2.929677	2.610739	-1.349996
Ni	-1.116305	0.838784	3.903924	Ni	-1.907241	-4.490057	-0.013762
Ni	2.375101	1.362276	-4.017841	Ni	-3.178568	3.663846	0.315932
Ni	-1.323672	0.689121	-1.849087	Ni	-0.175896	2.429284	4.206741
Ni	-3.390363	1.942325	-1.386776	Ni	-0.944087	-2.186553	-0.021881
Ni	1.116309	-0.838786	-3.903924	Ni	2.065330	0.277108	1.147861
Ni	-0.095340	-1.476539	-1.859265	Ni	-0.598957	2.630305	-4.052402
Ni	-1.985956	1.206955	0.495332	Ni	1.889079	-3.173095	1.876091
Ni	0.045382	4.747280	-1.049377	Ni	-1.922431	-0.378661	1.340281
Ni	2.109419	3.565689	-0.162931	Ni	-2.978454	-2.619970	1.312828
Ni	-3.235643	0.582650	2.508311	Ni	-1.677245	3.040077	2.263379
Ni	2.016734	-3.610025	0.031465	Ni	1.664798	-3.050283	-2.251857
Ni	3.390359	-1.942326	1.386779	Ni	2.430685	-1.032550	3.204750
Ni	-2.440343	-1.324894	3.991152	Ni	1.662280	1.728333	-3.374999
Ni	2.161808	2.719871	2.242635	Ni	-4.080523	-0.650936	0.145944
Ni	-3.281761	-1.878341	1.674030	Ni	0.230988	-2.372375	-4.239221

Ni	-0.127841	-3.885121	-1.410672	Ni	-2.406027	1.064536	-3.211870
Ni	-4.195854	-2.369495	-0.648309	Ni	4.197304	0.586552	2.393021
Ni	1.247791	3.043601	-2.505995	Ni	0.702557	-2.663267	4.059899
Ni	-2.109419	-3.565688	0.162935	Ni	-1.536272	1.807734	0.136509
Ni	-0.165780	1.366014	-3.899619	Ni	-4.218473	-0.495986	-2.377433
Ni	-0.013501	-2.322116	0.503694	Ni	-2.052784	-0.269084	-1.172949
Ni	4.174370	2.385638	0.723444	Ni	0.320486	-1.278712	1.973944
Ni	-1.347036	3.106815	-2.373541	Ni	0.839638	3.459987	2.111554
Ni	1.994230	-1.192972	-0.495969	Ni	3.930588	0.751455	-2.764954
Ni	0.009124	2.325405	-0.488386	Ni	2.099931	-0.838799	-3.464833
Ni	-0.023898	-4.763422	0.974246	Ni	-0.298368	1.309699	-1.966531
Ni	1.315398	-0.703103	1.849725	Ni	1.937054	0.358052	-1.332924
Ni	-2.687508	1.463635	-3.778232	Ni	0.922917	2.194704	0.012358
Ni	4.054087	-2.490477	-1.000939	Ni	-0.095496	1.171489	2.062943
Ni	2.728101	-1.395016	3.775094	Ni	-0.222391	0.114330	-4.131728

Coordinates for Pt14Ni41				Coordinates for Pt15Ni40			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-2.539197	-1.187935	-3.226507	Pt	-1.131395	-2.249153	-0.174306
Pt	-1.476234	2.508895	3.169244	Pt	3.290277	2.532016	-1.130481
Pt	-0.888076	-3.124696	-2.721840	Pt	4.267365	0.426758	-0.064730
Pt	4.113017	-1.183039	-0.053891	Pt	1.818054	-3.437400	1.842293
Pt	0.874755	3.255462	2.669880	Pt	3.697748	-1.882861	1.085461
Pt	4.021113	1.162672	-0.885258	Pt	2.404168	-1.463469	3.247119
Pt	1.504002	-2.413404	-3.156391	Pt	3.341664	2.337780	1.354094
Pt	3.386442	-0.759213	-2.470439	Pt	-3.282664	-2.428738	-1.423039
Pt	-1.023588	3.999140	1.198323	Pt	-2.181976	0.887085	3.585718
Pt	0.099721	-4.031958	1.464904	Pt	-0.199192	0.446383	-4.297104
Pt	-0.794929	-2.603615	3.330842	Pt	-1.155394	-3.430691	-2.366319
Pt	-3.200979	1.207251	-2.571179	Pt	-3.578394	1.707848	1.657247
Pt	-2.302562	-3.315735	1.446988	Pt	-0.211308	1.481479	-2.032156
Pt	-1.225930	0.852281	-4.039116	Pt	-2.329310	1.436806	-3.348074
Ni	2.968550	2.686090	1.080370	Pt	-1.640507	3.082531	2.492395
Ni	0.675861	2.267795	0.291606	Ni	2.015264	-0.740562	-3.526920
Ni	-0.172054	3.937736	-1.293920	Ni	2.951011	-3.847437	-0.455041
Ni	3.160284	1.727663	-3.255221	Ni	-0.408647	4.097555	0.370382
Ni	1.561826	0.840482	-1.578116	Ni	-3.566845	1.857533	-1.026510
Ni	-1.554952	-0.842706	1.595365	Ni	0.134701	-0.344051	4.124182
Ni	-3.281015	0.724524	2.425872	Ni	4.041298	0.573336	-2.656589
Ni	-3.961487	1.169132	-0.045004	Ni	1.437937	-1.897108	-0.202995
Ni	0.824466	-1.555976	1.604864	Ni	0.996082	3.707209	-1.817572
Ni	4.516411	0.756554	1.628467	Ni	-2.087809	-1.193526	-3.430609
Ni	0.215267	0.789343	2.244594	Ni	1.062494	2.135740	0.136299
Ni	2.477003	1.201695	3.096402	Ni	-2.215856	-4.530053	-0.218134
Ni	3.376481	-3.188009	-1.528166	Ni	-2.941844	3.880075	0.398194
Ni	-1.657060	1.528426	0.778423	Ni	-0.064686	2.178810	4.343123
Ni	-3.427769	3.088373	1.555846	Ni	-0.834754	-3.716251	1.879312
Ni	-1.374684	-4.623161	-0.614912	Ni	-0.343597	3.061329	-3.998650
Ni	-0.673324	-2.261587	-0.278424	Ni	0.444431	-4.233127	-0.322998
Ni	2.213434	0.367220	0.782436	Ni	2.046582	0.093229	1.200762
Ni	-0.002179	0.007072	0.010168	Ni	-3.206628	-2.562642	1.235735
Ni	1.415901	4.625234	0.540130	Ni	1.025875	3.269343	2.324713
Ni	-1.372830	-0.058101	3.923094	Ni	0.018323	-1.076762	-2.153094
Ni	-2.947666	-2.716086	-1.089719	Ni	1.445109	-3.052352	-2.375649
Ni	2.326035	3.152460	-1.331367	Ni	-1.710855	3.502152	-1.784519
Ni	-0.402355	-1.521598	-4.696109	Ni	2.077054	1.175903	3.389906
Ni	-0.849235	1.577954	-1.570132	Ni	0.184424	-1.424553	1.909325
Ni	-3.213185	-1.677874	3.248886	Ni	-4.128030	-0.417840	0.106618

Ni	-2.204490	-0.375439	-0.788250	Ni	4.252753	0.213857	2.535557
Ni	-2.571484	3.159562	-0.824005	Ni	-4.055977	-0.637285	2.647822
Ni	1.646288	-1.533235	-0.740683	Ni	-1.845407	-1.727998	3.271488
Ni	1.741132	-3.157571	3.274961	Ni	-1.451418	1.892539	0.199362
Ni	0.999007	-3.908066	-1.037117	Ni	0.349268	-2.871560	3.928016
Ni	-1.713330	3.250027	-3.196400	Ni	-4.191385	-0.184330	-2.445893
Ni	2.553416	-3.153972	0.872943	Ni	2.136215	4.373949	0.319751
Ni	1.355567	0.108580	-3.947740	Ni	1.937836	1.822147	-3.338530
Ni	-4.520127	-0.783011	-1.574765	Ni	0.059082	-2.173193	-4.334581
Ni	-0.206557	-0.712190	-2.247334	Ni	-2.083571	-0.093182	-1.218979
Ni	0.705791	2.471324	-3.239447	Ni	-0.008422	-0.002623	-0.009438
Ni	-3.846532	-1.265512	0.835142	Ni	-1.992344	-0.300712	1.291594
Ni	3.141076	-1.212012	2.409687	Ni	1.981147	0.305433	-1.299861
Ni	1.061552	-0.817250	3.927465	Ni	-0.063418	1.069215	2.115635
Ni	0.469407	1.560001	4.594549	Ni	3.495644	-1.628773	-1.539445

Coordinates for Pt16Ni39				Coordinates for Pt17Ni38			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-3.457008	-2.087647	-1.504093	Pt	-2.113758	-0.082650	-1.354501
Pt	1.452894	-3.587396	1.920789	Pt	-2.251220	0.351239	3.652375
Pt	1.256598	3.432873	2.354758	Pt	3.795546	-1.331432	-1.658413
Pt	0.162290	0.272798	-4.312262	Pt	1.726962	-3.684362	1.482953
Pt	-0.173282	-0.270319	4.328167	Pt	-1.734934	3.671838	-1.484616
Pt	-4.313829	-0.144799	-0.135133	Pt	4.266198	0.535810	0.040121
Pt	3.469185	-2.214951	1.258270	Pt	2.119576	0.511047	-1.250219
Pt	3.358174	2.200542	1.538309	Pt	1.892233	0.913897	3.748805
Pt	-2.130285	0.011526	-1.322304	Pt	0.755863	4.003579	-1.426491
Pt	1.258205	2.163993	0.172085	Pt	-0.182628	0.876508	2.344923
Pt	-2.151782	-1.540113	3.443720	Pt	-3.172556	-2.281726	-1.843143
Pt	1.368391	-2.104167	-0.076928	Pt	-2.017474	-0.980029	-3.676917
Pt	2.152141	1.523171	-3.418569	Pt	-0.762337	-4.023754	1.418688
Pt	-2.225123	0.971159	3.586435	Pt	0.597282	-4.246843	-0.685092
Pt	2.211039	-0.984890	-3.580813	Pt	-0.592273	4.223032	0.685388
Pt	-0.056975	4.288432	0.323256	Pt	-0.009447	-0.726087	4.287624
Ni	2.729484	-4.221674	-0.297668	Pt	2.367656	-0.387059	-3.574969
Ni	1.994399	-0.033993	1.337952	Ni	-1.777874	2.829916	2.651215
Ni	-4.208505	0.112591	-2.758063	Ni	-3.034618	-2.740840	0.769605
Ni	0.006320	1.374306	-1.964366	Ni	-1.523811	1.825456	0.330292
Ni	-1.404518	3.184544	2.303196	Ni	-0.007197	0.715756	-4.048005
Ni	0.065069	-1.121347	-2.121498	Ni	0.176597	-0.905766	-2.222582
Ni	4.209067	0.247501	-2.475014	Ni	3.025903	2.187053	1.710610
Ni	-2.010750	-1.132878	-3.585965	Ni	1.534365	-1.844858	-0.338355
Ni	-2.483246	-4.161165	-0.289525	Ni	3.090263	2.819744	-0.821700
Ni	-2.635493	4.058849	0.252854	Ni	-3.134324	3.691416	0.703925
Ni	-0.119156	2.340199	4.310896	Ni	3.625088	-1.853494	0.954286
Ni	-0.014625	2.841862	-3.979946	Ni	-2.007391	-4.400890	-0.843684
Ni	-0.005920	-0.005146	0.015598	Ni	-0.372896	1.884216	4.679246
Ni	-1.330512	1.989059	0.138418	Ni	-4.236398	-0.594144	-0.070852
Ni	2.054977	0.119469	-1.234005	Ni	2.019300	-0.007371	1.291547
Ni	-1.214440	-2.075815	-0.109061	Ni	-0.184223	1.607328	-1.776735
Ni	-3.451348	1.864286	1.369518	Ni	0.830511	3.178959	2.711323
Ni	-3.339442	-2.243455	1.140415	Ni	0.000446	-0.016673	-0.000270
Ni	1.965190	1.139390	3.510459	Ni	-3.565309	1.308003	1.578769
Ni	-1.200953	-3.515932	1.880536	Ni	0.342347	-1.750947	-4.514858
Ni	1.269738	3.580169	-1.936689	Ni	3.150645	-3.699051	-0.710386
Ni	3.510633	-1.945909	-1.431632	Ni	1.887865	2.236521	-3.100682
Ni	2.040571	-1.450558	3.357291	Ni	0.962637	2.163318	0.393250
Ni	3.415767	2.258908	-1.167739	Ni	2.220626	-1.631007	3.140720

Ni	-1.305665	3.437125	-1.833736	Ni	-4.270744	-0.031531	-2.670633
Ni	-2.044560	1.464454	-3.407796	Ni	-4.063128	-1.043035	2.437272
Ni	-1.202670	-3.207865	-2.276587	Ni	-2.016974	-0.544873	1.186083
Ni	-3.484860	2.149564	-1.214543	Ni	1.757483	-2.763956	-2.608426
Ni	0.031580	-2.856996	3.994183	Ni	4.085824	0.063267	2.606920
Ni	2.574459	4.346491	0.227215	Ni	0.170608	-1.626566	1.780201
Ni	-0.006863	-1.377231	1.991980	Ni	-2.286856	1.665359	-3.189446
Ni	1.426771	-3.219260	-2.360219	Ni	0.343270	-3.252953	3.656394
Ni	-0.076072	1.130617	2.137405	Ni	-0.950841	-2.188674	-0.399608
Ni	-4.226749	-0.280489	2.475315	Ni	1.994364	4.388827	0.824091
Ni	0.101827	-2.320812	-4.305526	Ni	-3.662426	1.899195	-0.984387
Ni	-2.057233	-0.151073	1.257070	Ni	-1.863906	-2.182926	3.033108
Ni	4.073590	-0.065990	2.630995	Ni	4.233026	1.149038	-2.523444
Ni	4.104304	0.088843	0.101263	Ni	-0.812457	-3.119517	-2.676502
Ni	0.069203	-4.270852	-0.258671	Ni	-0.364182	3.242706	-3.644804

Coordinates for Pt18Ni37				Coordinates for Pt19Ni36			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.269897	4.132375	1.334974	Pt	2.027835	-0.786303	-3.750151
Pt	-2.318585	-3.536963	-0.796712	Pt	2.526831	-1.325369	3.263825
Pt	-1.657706	3.887446	-0.812669	Pt	-3.288036	-2.519644	-1.221150
Pt	2.531355	-2.216221	2.759013	Pt	4.255580	0.747847	-0.245278
Pt	-1.684809	-1.297494	3.776427	Pt	1.637719	-3.083330	-2.502922
Pt	0.360839	-0.789712	-4.230466	Pt	-0.241597	0.281114	-4.286964
Pt	-3.981737	-1.754200	0.012015	Pt	3.293010	2.544119	1.224040
Pt	0.358367	2.449726	-0.437655	Pt	-3.110501	-2.711436	1.274319
Pt	-3.973811	0.214355	-1.638159	Pt	0.705920	-4.171591	-0.370834
Pt	2.052277	-1.389245	0.423457	Pt	-1.947494	3.445573	-1.702338
Pt	-0.368796	0.789567	4.245483	Pt	0.048629	-1.127511	-2.240803
Pt	2.190797	3.614438	0.810497	Pt	1.940236	-3.410142	1.749312
Pt	-1.886163	-1.109860	-1.237635	Pt	-1.598794	1.931779	0.262211
Pt	-2.677980	0.953378	3.271543	Pt	3.115284	2.736118	-1.274125
Pt	3.938718	-0.346941	1.699069	Pt	0.351322	-1.454511	2.013907
Pt	2.672749	-0.953714	-3.255392	Pt	0.367217	-0.376594	4.270689
Pt	1.745445	-3.825254	0.917345	Pt	-4.256215	-0.722123	0.247299
Pt	1.678407	1.299807	-3.760875	Pt	-1.651134	3.125412	2.463372
Ni	-3.729804	-2.228196	-2.596722	Pt	-0.695239	4.284695	0.378766
Ni	0.360375	-0.739069	2.277461	Ni	2.122656	0.232815	1.139235
Ni	-2.640502	2.912372	1.432009	Ni	3.238324	-3.646163	-0.510614
Ni	1.274157	-3.122266	-3.546163	Ni	-2.206418	-1.354037	-3.390439
Ni	1.152040	2.643331	3.031572	Ni	-0.956089	-2.204696	-0.101425
Ni	0.631652	-1.517898	-1.752941	Ni	-3.826740	1.655394	-0.928718
Ni	3.606511	2.138999	2.441577	Ni	3.920968	0.805774	-2.839679
Ni	-0.367707	-2.324570	0.480853	Ni	-2.115275	-0.205948	-1.128637
Ni	-3.975661	2.676864	-0.756314	Ni	-1.911673	-4.502923	-0.210075
Ni	1.949759	0.572488	-1.283155	Ni	-3.308625	3.802687	0.527644
Ni	0.021988	-3.121741	2.785503	Ni	0.672884	3.702583	-1.839118
Ni	0.784158	-1.528209	4.599767	Ni	-0.051609	2.208992	4.322309
Ni	1.764501	1.056887	1.240805	Ni	-1.937477	-0.398025	1.370544
Ni	-0.006045	0.000567	0.014439	Ni	-0.712176	-3.773493	1.867674
Ni	0.767059	4.903358	-0.993964	Ni	-0.281882	1.426378	-1.917586
Ni	-0.363101	0.736559	-2.258632	Ni	-0.635528	2.839804	-3.885393
Ni	-2.371273	2.086599	-2.631368	Ni	0.009216	0.014583	0.000467
Ni	4.160769	-2.787933	0.731249	Ni	3.559479	-1.412142	-1.686617
Ni	-4.004996	-1.188475	2.579864	Ni	-3.639808	1.453451	1.698842
Ni	2.416338	3.006495	-1.820665	Ni	3.745941	-1.613579	0.934344
Ni	3.987606	1.180987	-2.579054	Ni	1.943582	0.426270	-1.377862
Ni	2.183368	0.305989	3.555859	Ni	-1.949875	0.717569	3.550749

Ni	-0.638298	1.524264	1.769777	Ni	0.011020	-2.345491	-4.473659
Ni	-2.375924	-2.951640	1.774149	Ni	0.965038	3.386967	2.267466
Ni	-1.172487	-2.685011	-3.099765	Ni	0.972278	2.222194	0.101619
Ni	-0.773636	1.518743	-4.587174	Ni	2.153429	1.323141	3.338884
Ni	-1.275634	3.140001	3.552655	Ni	-3.923010	-0.790298	2.822006
Ni	-1.961605	-0.574354	1.298128	Ni	4.290086	0.407013	2.348731
Ni	-2.216114	-0.319783	-3.630306	Ni	-2.422328	1.227964	-3.090172
Ni	0.267740	-3.894318	-1.289808	Ni	-1.008722	-3.453131	-2.300655
Ni	-4.007087	0.745125	0.944940	Ni	0.615170	-2.998160	4.018418
Ni	3.764589	1.651333	-0.043482	Ni	1.597858	-1.766427	-0.249436
Ni	2.698274	-2.959581	-1.467229	Ni	0.006254	1.115103	2.132525
Ni	-0.714594	-4.713827	0.901469	Ni	-4.289451	-0.394427	-2.328803
Ni	4.081134	-0.766494	-0.974351	Ni	1.917465	4.521100	0.211060
Ni	-1.976845	1.322289	-0.337160	Ni	1.676259	1.838632	-3.368338
Ni	-0.010150	3.178628	-2.844074	Ni	-1.721796	-1.877578	3.421533

Coordinates for Pt20Ni35				Coordinates for Pt21Ni34			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.019536	-0.631063	4.296739	Pt	-3.463994	-0.542750	-2.536343
Pt	-2.144865	0.165405	-1.321211	Pt	0.300901	-2.638313	-3.347693
Pt	3.430473	2.397661	-0.860012	Pt	0.010135	0.905682	-2.355444
Pt	-2.147010	0.671222	3.680451	Pt	-4.289513	-0.373111	-0.192431
Pt	3.519014	-1.790802	-1.651494	Pt	-1.020731	-3.865726	-1.503188
Pt	1.466207	-3.054684	-2.642766	Pt	-0.097694	3.377533	-2.688976
Pt	3.436507	1.906322	1.674682	Pt	-1.595922	3.724973	1.469275
Pt	-1.172607	-3.881110	1.478265	Pt	3.379554	2.498892	1.004147
Pt	-1.278267	3.814995	-1.540956	Pt	2.253574	-1.817236	3.180240
Pt	-0.060027	0.933348	2.335648	Pt	0.203224	-3.321782	2.687472
Pt	-3.498512	-1.923405	-1.741878	Pt	-1.487636	0.341097	4.023048
Pt	4.266886	0.118817	0.006500	Pt	2.279573	-3.409014	1.155103
Pt	-2.188613	-0.788915	-3.634379	Pt	-1.438751	1.237506	1.654692
Pt	2.096406	0.813221	3.647928	Pt	-0.336033	2.639854	3.424219
Pt	-0.088880	4.278799	0.597067	Pt	1.545917	-3.726340	-1.358448
Pt	0.139409	-4.248983	-0.686292	Pt	1.412633	-0.360653	-4.033570
Pt	1.317750	-3.817512	1.531680	Pt	2.052266	2.074535	-3.224959
Pt	-4.309150	-0.124286	-0.096661	Pt	3.431220	0.463946	2.555394
Pt	2.209613	-0.820781	-3.581505	Pt	4.307538	0.343708	0.164452
Pt	1.284334	3.799920	-1.501474	Pt	-1.977294	-2.022448	3.165080
Ni	4.178979	0.559052	-2.562285	Pt	-3.276188	-2.575292	-1.003133
Ni	-4.141382	-0.527342	2.482021	Ni	-4.009071	-2.336853	1.508847
Ni	-2.491628	-4.148454	-0.750790	Ni	2.092870	-0.850254	0.791093
Ni	-2.671487	4.054307	0.648636	Ni	-0.278568	4.824047	-0.511361
Ni	0.019462	3.179444	-3.694467	Ni	0.003667	0.018360	-0.002360
Ni	-0.068595	1.994977	4.645974	Ni	3.558188	-2.073558	-0.760173
Ni	0.026271	-0.945750	-2.202748	Ni	1.046433	3.786397	1.445262
Ni	3.409198	-2.232986	0.958303	Ni	-0.076305	1.725201	-4.759854
Ni	2.749203	-4.076260	-0.627953	Ni	-4.253729	1.771957	-1.672362
Ni	1.306524	-1.982471	-0.306605	Ni	2.304050	2.705132	3.367423
Ni	-1.414605	3.065196	2.611422	Ni	-2.229393	1.765482	-3.192740
Ni	2.021410	-0.205151	1.248111	Ni	1.924503	3.579203	-1.007175
Ni	-2.054917	-1.902376	3.104313	Ni	-2.980042	2.413816	3.300077
Ni	-2.052332	-0.296075	1.229812	Ni	1.158944	1.342374	1.644315
Ni	1.229161	3.124112	2.637967	Ni	1.185558	0.530666	3.986950
Ni	0.004981	0.623674	-4.079610	Ni	0.219691	-4.880747	0.570130
Ni	-1.220162	-2.056788	-0.358694	Ni	0.072929	-0.791021	2.249242
Ni	2.057772	-1.795654	3.141103	Ni	-0.105951	2.401151	-0.242642
Ni	2.009307	0.261375	-1.230562	Ni	-3.653216	2.086266	0.752459
Ni	-0.019577	1.575243	-1.800664	Ni	-2.099458	0.867307	-0.830074

Ni	0.004055	-1.597292	1.808810	Ni	-2.224358	3.297058	-1.081634
Ni	-3.458512	2.309926	-0.982799	Ni	1.398150	-1.154278	-1.550869
Ni	4.135755	-0.422772	2.572237	Ni	-1.245727	-0.539211	-4.055014
Ni	-2.104780	1.879044	-3.201888	Ni	-1.136719	-1.295837	-1.661297
Ni	-1.220436	-3.031591	-2.626746	Ni	-1.986840	-1.120227	0.730598
Ni	0.021725	-3.198878	3.709633	Ni	-1.885787	-3.592175	1.024716
Ni	1.198103	2.034119	0.374731	Ni	3.438454	-0.008222	-2.352151
Ni	-4.292000	0.454615	-2.664323	Ni	0.106084	-1.634733	4.669632
Ni	0.024662	-1.884251	-4.506795	Ni	2.004537	1.145571	-0.727273
Ni	2.514643	4.195942	0.769180	Ni	-3.556872	-0.011084	2.364660
Ni	2.082553	1.834460	-3.105765	Ni	2.869398	-2.360567	-3.176008
Ni	-1.312314	2.001631	0.317663	Ni	-2.324504	-2.716312	-3.431188
Ni	-3.392234	1.725985	1.574055	Ni	0.102977	-2.348222	0.275860
Ni	-3.324218	-2.378678	0.875978	Ni	4.320039	-1.816659	1.617738
Ni	-0.013716	-0.008502	0.002412	Ni	4.047279	2.314903	-1.523816

Coordinates for Pt22Ni33				Coordinates for Pt23Ni32			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	1.692803	-0.774404	3.838591	Pt	-2.152013	-0.644904	-3.625440
Pt	0.821156	-4.042158	1.188358	Pt	-1.390569	-2.994836	-2.700779
Pt	-3.117343	0.140019	2.940763	Pt	3.315990	-2.061828	-1.679088
Pt	2.756074	1.460356	2.913396	Pt	-0.094327	0.792533	-4.195319
Pt	-1.337275	3.816561	1.361284	Pt	-2.179896	1.889274	-3.145944
Pt	3.136046	-0.112567	-2.926953	Pt	-3.536513	-2.207503	1.048184
Pt	0.056896	-2.708525	3.313142	Pt	1.404387	3.002757	2.707971
Pt	4.199809	-0.612577	-0.679660	Pt	2.157481	-0.301819	1.265599
Pt	0.924031	3.251722	2.606073	Pt	-2.180285	-1.941820	3.162968
Pt	-0.845493	-0.449907	4.168292	Pt	2.254935	0.675502	3.587279
Pt	1.328087	-3.896044	-1.402897	Pt	-1.474165	-3.733349	1.509865
Pt	-0.435062	-2.466091	-0.334153	Pt	-1.181548	3.106618	2.683091
Pt	-4.169610	0.708286	0.616605	Pt	2.249354	-1.930191	3.156644
Pt	2.840715	3.073407	0.900902	Pt	2.089216	1.897264	-3.214036
Pt	-3.737700	-1.689563	1.313792	Pt	0.175743	4.206450	0.785874
Pt	-3.095369	2.928079	-0.307586	Pt	-4.278922	0.153884	0.139937
Pt	-0.921868	4.008543	-1.172246	Pt	-0.220250	-4.223703	-0.765589
Pt	-0.845307	-3.319184	-2.642195	Pt	-3.449411	2.365040	-0.875184
Pt	0.870031	0.454063	-4.180782	Pt	3.458870	2.309345	-1.129115
Pt	-0.056535	2.725456	-3.307112	Pt	3.461442	-2.422750	0.858553
Pt	3.694895	1.796599	-1.245163	Pt	-3.373222	2.017465	1.681680
Pt	-1.624892	0.834342	-3.888385	Pt	1.425425	3.760448	-1.505788
Ni	4.657427	1.228372	1.115930	Pt	1.185773	-3.140052	-2.664884
Ni	-3.561691	0.893868	-1.983059	Ni	2.027414	0.151349	-1.282666
Ni	-1.339600	2.070194	3.385993	Ni	2.767071	4.048851	0.710051
Ni	2.248759	0.598173	0.521208	Ni	-1.234600	3.735832	-1.453811
Ni	0.386985	0.740227	2.222604	Ni	1.349266	1.959258	0.342148
Ni	1.257271	-1.481808	1.389897	Ni	2.401234	-4.275118	-0.662466
Ni	-0.386416	-0.737339	-2.258340	Ni	0.079540	1.764045	4.559769
Ni	0.789908	1.550283	4.607806	Ni	-0.044928	3.334368	-3.633614
Ni	1.229851	1.121107	-1.721739	Ni	0.004214	-0.003185	0.006921
Ni	-2.669696	-1.400910	-2.830225	Ni	0.037400	0.873278	2.229322
Ni	-4.595799	-1.226567	-1.088140	Ni	1.204191	-3.730891	1.480426
Ni	0.913430	4.818950	0.526566	Ni	-2.442889	4.227991	0.689759
Ni	-1.705727	1.260951	1.074085	Ni	-2.023033	0.731926	3.590812
Ni	-2.616561	3.033210	-2.886948	Ni	-1.353566	-1.946699	-0.331038
Ni	2.585760	-3.030494	2.832228	Ni	0.012925	-3.255712	3.643858
Ni	-1.234849	-1.134023	1.717173	Ni	-4.139612	-0.277105	2.700376
Ni	-1.791753	-3.568932	1.529547	Ni	3.545479	1.825707	1.543497
Ni	-2.259181	-0.629180	-0.523732	Ni	4.374811	-0.512481	2.480984

Ni	-2.538604	-2.323670	3.560182	Ni	-0.003971	1.608244	-1.756310
Ni	-0.963010	-4.943141	-0.563223	Ni	4.092821	0.279504	-2.647011
Ni	3.028822	-2.826330	0.316252	Ni	-3.477864	-1.746276	-1.579912
Ni	1.700161	3.544143	-1.479944	Ni	1.142722	-2.078409	-0.327127
Ni	1.734071	-1.278240	-1.082422	Ni	4.270138	-0.074984	-0.158786
Ni	-2.856603	-3.062608	-0.832930	Ni	-0.016215	-1.607187	1.797865
Ni	3.590479	-0.880051	1.950681	Ni	0.063505	-0.752844	4.092168
Ni	0.439632	2.324922	0.255505	Ni	-0.009980	-0.877298	-2.210053
Ni	-0.000385	-0.011035	-0.011110	Ni	-4.243558	0.462621	-2.469545
Ni	-1.254747	1.463155	-1.400409	Ni	-2.806090	-4.002505	-0.719668
Ni	-3.508590	2.635110	2.244166	Ni	-0.028929	-1.809409	-4.579173
Ni	2.532159	2.349605	-3.531081	Ni	2.017560	-0.751260	-3.596369
Ni	1.361491	-2.065398	-3.383079	Ni	-2.003148	-0.147503	1.299435
Ni	3.503352	-2.619529	-2.179647	Ni	-2.049958	0.230359	-1.189594
Ni	-0.810434	-1.539429	-4.567859	Ni	-1.179453	2.041719	0.343279

Coordinates for Pt24Ni31				Coordinates for Pt25Ni30			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-3.342872	-2.446891	1.054244	Pt	1.313809	3.676883	-1.770831
Pt	-1.202090	-3.749614	1.663984	Pt	-2.390786	1.709715	-3.195177
Pt	3.610644	-1.806279	-1.405018	Pt	3.396718	2.217472	-1.360179
Pt	0.033612	0.542905	-4.240002	Pt	-2.221847	0.181520	-1.170261
Pt	-2.069747	-1.890746	3.227187	Pt	1.136475	-3.253360	-2.543340
Pt	2.187152	-1.506071	3.349867	Pt	3.338332	-2.042739	-1.725242
Pt	-0.997382	-3.260020	-2.578963	Pt	-0.305051	0.557940	-4.222333
Pt	2.069747	1.890746	-3.227187	Pt	-4.287107	0.044593	0.345293
Pt	-3.610644	1.806279	1.405018	Pt	3.548594	-2.238705	0.837531
Pt	1.923097	1.038976	3.673648	Pt	1.455439	3.172904	2.473709
Pt	3.596238	-1.994567	1.167171	Pt	-3.382561	-2.244604	1.376953
Pt	-1.574513	3.154125	2.417838	Pt	-1.881700	-1.767913	3.417351
Pt	0.997382	3.260020	2.578963	Pt	0.323917	-0.559140	4.228023
Pt	-0.206994	4.238116	0.518714	Pt	-3.322657	2.043107	1.737252
Pt	-0.033612	-0.542905	4.240002	Pt	-1.282827	-3.676522	1.785968
Pt	-4.268590	-0.225852	-0.040447	Pt	-1.118884	3.249753	2.561481
Pt	0.206994	-4.238116	-0.518714	Pt	0.146529	4.251380	0.534467
Pt	-3.596238	1.994567	-1.167171	Pt	-1.439096	-3.201107	-2.461258
Pt	3.342872	2.446891	-1.054244	Pt	-0.115899	-4.250842	-0.518635
Pt	-2.187152	1.506071	-3.349867	Pt	-3.587851	2.298869	-0.831047
Pt	4.268590	0.225852	0.040447	Pt	4.262716	-0.065406	-0.350559
Pt	1.202090	3.749614	-1.663983	Pt	1.905687	1.761151	-3.411849
Pt	-1.923097	-1.038976	-3.673648	Pt	2.383281	-1.665175	3.138934
Pt	1.574513	-3.154125	-2.417838	Pt	2.323134	0.889196	3.479982
Ni	-2.394967	-4.268575	-0.590800	Pt	-2.346069	-0.910715	-3.488136
Ni	-2.821547	4.031099	0.307827	Ni	-2.708510	-4.121891	-0.344233
Ni	-0.336087	2.061071	4.465947	Ni	-2.484451	4.227762	0.577096
Ni	4.191900	0.491327	-2.547985	Ni	0.225222	2.058022	4.481009
Ni	-0.153175	3.106041	-3.825533	Ni	-3.957194	-0.223819	2.920634
Ni	0.152924	-1.001030	-2.160318	Ni	-0.265746	3.135787	-3.804701
Ni	-0.067498	1.497036	-1.856541	Ni	2.115867	-0.121886	1.101735
Ni	1.468936	-3.524366	1.737065	Ni	1.214680	-2.038818	-0.278032
Ni	-1.151808	-2.070570	-0.280177	Ni	1.390287	-3.625489	1.607474
Ni	3.230956	2.138768	1.607148	Ni	3.509766	1.905733	1.302225
Ni	-2.006448	-0.020071	-1.290808	Ni	-0.114786	1.524151	-1.851466
Ni	1.368385	-1.948026	-0.158560	Ni	-1.845256	0.908407	3.663100
Ni	-1.368385	1.948026	0.158560	Ni	-0.217799	-2.064229	-4.464419
Ni	-2.032713	-0.243323	1.225272	Ni	-0.110568	-1.011189	-2.167988
Ni	0.153175	-3.106041	3.825533	Ni	-3.571560	-1.979417	-1.315160
Ni	4.147994	0.062611	2.663809	Ni	3.973287	0.213342	-2.921157

Ni	-2.235949	0.775151	3.463524	Ni	1.317740	1.989546	0.171414
Ni	-0.152924	1.001031	2.160319	Ni	1.926464	0.109316	-1.409246
Ni	2.394967	4.268575	0.590800	Ni	-1.317505	-2.000709	-0.168516
Ni	2.006448	0.020070	1.290808	Ni	-1.926287	-0.117558	1.417932
Ni	-4.191900	-0.491327	2.547985	Ni	-1.374400	3.620066	-1.598071
Ni	1.151808	2.070571	0.280177	Ni	2.512847	-4.215174	-0.553262
Ni	-1.468936	3.524366	-1.737065	Ni	-0.000143	0.000869	-0.000285
Ni	2.821547	-4.031099	-0.307827	Ni	0.303805	-3.127955	3.809443
Ni	-4.147994	-0.062611	-2.663809	Ni	-4.475814	0.280656	-2.336254
Ni	-3.230956	-2.138768	-1.607148	Ni	-1.200461	2.058488	0.292671
Ni	0.336087	-2.061071	-4.465947	Ni	2.738677	4.093053	0.366690
Ni	2.235949	-0.775151	-3.463524	Ni	1.859771	-0.915088	-3.654084
Ni	0.067498	-1.497036	1.856541	Ni	0.138476	-1.509150	1.847389
Ni	0.000000	0.000000	0.000000	Ni	0.115769	1.000482	2.166756
Ni	2.032713	0.243323	-1.225272	Ni	4.375512	-0.231559	2.273230

Coordinates for Pt26Ni29				Coordinates for Pt27Ni28			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-4.195107	-0.895540	0.084854	Pt	-1.150629	-2.234474	-0.270692
Pt	0.755217	-3.700235	-2.044277	Pt	-3.190367	-2.629488	1.237402
Pt	2.511823	-1.910436	-2.879904	Pt	3.755702	-1.944890	0.699417
Pt	1.640991	2.935155	2.674227	Pt	4.319003	0.355075	-0.356474
Pt	1.313755	0.013421	-4.142465	Pt	0.939937	3.870446	-1.580687
Pt	3.900870	-1.283382	1.255908	Pt	0.284814	-4.271418	-0.785574
Pt	2.128065	-3.055845	2.094278	Pt	-1.670882	-2.127027	3.325808
Pt	3.437828	1.011918	2.369984	Pt	2.274823	0.900341	3.536137
Pt	1.204789	4.096218	0.421466	Pt	-0.430624	0.756774	-4.214445
Pt	-1.640989	-2.935159	-2.674230	Pt	-3.556272	1.628387	1.909062
Pt	-1.313755	-0.013418	4.142461	Pt	1.383442	-2.983367	-2.747353
Pt	-3.385706	-0.543544	2.602111	Pt	1.182858	3.145041	2.662076
Pt	-0.401297	-3.737896	2.096791	Pt	-1.402252	3.010089	2.807131
Pt	-3.900870	1.283379	-1.255910	Pt	-4.255257	-0.339102	0.374440
Pt	-0.755214	3.700236	2.044278	Pt	-1.483829	1.990015	0.477644
Pt	-1.009751	-1.250563	1.941789	Pt	0.424229	-0.775355	4.208151
Pt	0.526640	-1.983280	3.830843	Pt	3.518081	-1.622614	-1.901047
Pt	0.401284	3.737891	-2.096791	Pt	3.208110	2.661000	-1.253154
Pt	3.385701	0.543540	-2.602113	Pt	2.571474	-1.619967	3.041863
Pt	-2.128068	3.055844	-2.094278	Pt	-2.290643	-0.887359	-3.533448
Pt	-3.437829	-1.011921	-2.369991	Pt	-3.762483	1.992622	-0.698335
Pt	-1.204785	-4.096215	-0.421466	Pt	-1.221601	-3.173076	-2.655892
Pt	-0.526642	1.983275	-3.830850	Pt	-0.277698	4.237913	0.765988
Pt	1.009745	1.250559	-1.941790	Pt	1.706090	2.110254	-3.354189
Pt	4.195110	0.895542	-0.084858	Pt	-2.557245	1.627831	-3.054557
Pt	-2.511820	1.910435	2.879905	Pt	-0.930225	-3.928640	1.614763
Ni	2.216840	-0.670053	-0.622397	Pt	2.024738	0.417400	-1.454742
Ni	-1.297386	-0.587680	-3.947357	Ni	-1.754756	3.656579	-1.438652
Ni	-1.204690	4.769172	-0.318331	Ni	-3.898843	-0.776386	2.928332
Ni	4.549279	-1.389558	-1.292595	Ni	-3.425142	-2.177184	-1.431006
Ni	1.204689	-4.769171	0.318333	Ni	0.085166	1.801985	4.611632
Ni	1.490423	-0.586732	1.793192	Ni	-0.303474	1.605592	-1.775765
Ni	-1.760931	-1.567381	-0.491921	Ni	4.408015	0.045444	2.255874
Ni	-1.490423	0.586732	-1.793188	Ni	1.419806	-1.909644	-0.406001
Ni	-4.549278	1.389558	1.292593	Ni	2.140471	0.014736	1.107866
Ni	-0.376061	2.438523	4.286324	Ni	0.001242	-0.000358	0.002550
Ni	1.297387	0.587680	3.947359	Ni	4.027939	0.794350	-2.974044
Ni	0.578917	-2.322364	0.149023	Ni	-1.889871	0.526959	3.716131
Ni	2.852875	-3.053553	-0.483047	Ni	1.724938	-3.574266	1.381354
Ni	-0.578912	2.322367	-0.149019	Ni	-0.049279	-0.883693	-2.244999

Ni	3.038251	-1.215972	3.708209	Ni	1.913688	-0.552939	-3.814641
Ni	-3.038253	1.215970	-3.708212	Ni	0.053528	0.871766	2.246411
Ni	-2.852867	3.053558	0.483049	Ni	-1.905976	-0.385951	1.430294
Ni	-3.621091	-3.222949	-1.012441	Ni	-2.148669	-0.012374	-1.098386
Ni	-2.216839	0.670058	0.622400	Ni	-2.369099	-4.444965	-0.574396
Ni	-0.178896	1.200015	2.075840	Ni	-0.600732	3.293182	-3.640286
Ni	-2.870385	-2.895751	1.352868	Ni	1.129939	2.112985	0.293183
Ni	1.760931	1.567384	0.491919	Ni	0.638193	-3.302939	3.633853
Ni	-2.080621	-2.551909	3.843652	Ni	3.334106	2.148373	1.388229
Ni	0.000001	0.000000	0.000003	Ni	-4.410821	-0.011410	-2.236548
Ni	0.178896	-1.200014	-2.075839	Ni	2.322211	4.316592	0.594376
Ni	2.870380	2.895747	-1.352864	Ni	0.313411	-1.597729	1.777148
Ni	0.376068	-2.438526	-4.286322	Ni	-0.104412	-1.830632	-4.592981
Ni	2.080622	2.551918	-3.843635	Ni	-2.959234	4.019465	0.887153
Ni	3.621094	3.222950	1.012433	Ni	2.894368	-3.913982	-0.825978

Coordinates for Pt28Ni27				Coordinates for Pt29Ni26			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.635832	-4.201501	0.885767	Pt	-1.702615	3.886141	-0.720730
Pt	0.086621	-1.884442	1.712251	Pt	0.772534	2.045407	1.276855
Pt	0.587213	-0.624367	-2.372315	Pt	-1.044227	3.759438	1.851618
Pt	-0.046162	-2.943569	-3.214237	Pt	-3.048844	-2.919286	-0.694858
Pt	-2.035674	1.663638	-3.391921	Pt	-2.965067	-0.740820	2.993337
Pt	-4.141450	-0.981451	-0.713269	Pt	-1.180528	0.215260	-4.148767
Pt	4.042159	-0.861337	-1.079603	Pt	-4.067095	0.819012	1.136951
Pt	0.459833	1.278752	-4.085156	Pt	3.000830	0.682852	-3.060093
Pt	0.085154	2.892918	3.163115	Pt	3.087982	2.949018	0.776592
Pt	3.764573	-1.558881	1.365990	Pt	1.766506	-2.540185	2.988584
Pt	-2.934055	-3.166205	0.153534	Pt	4.118870	0.533918	1.127059
Pt	-4.133010	0.853115	1.137991	Pt	1.715052	-3.878152	0.723377
Pt	2.037185	-1.755981	3.375673	Pt	-4.118551	-0.518951	-1.128250
Pt	-2.097940	-2.829308	2.598995	Pt	1.153560	-0.289742	4.119617
Pt	1.293017	0.707318	4.030247	Pt	0.803137	4.264716	0.051370
Pt	4.095075	0.968443	0.789763	Pt	-1.754326	2.541478	-2.997273
Pt	-2.467208	2.379340	2.667365	Pt	0.688283	-0.145424	-2.432280
Pt	-1.146415	4.004695	1.090124	Pt	-2.515977	1.823305	2.954872
Pt	2.464462	-2.348587	-2.646011	Pt	-2.344790	-3.049703	1.854597
Pt	2.885897	3.156428	-0.078315	Pt	-0.830968	-4.196420	0.009110
Pt	-1.880898	1.675750	0.299739	Pt	3.617037	-2.066292	1.138311
Pt	-3.804654	1.532427	-1.389166	Pt	2.479690	-1.892428	-2.986985
Pt	2.032921	2.774364	-2.522057	Pt	4.067157	-0.810746	-1.149491
Pt	0.611063	4.147371	-0.897957	Pt	1.019746	-3.769352	-1.771446
Pt	1.093994	-3.999454	-1.145099	Pt	-0.747190	-2.017951	3.697311
Pt	-0.432996	-1.301513	4.127753	Pt	-2.649795	-1.656295	-2.936178
Pt	-1.281654	-0.707975	-4.101204	Pt	-3.599419	2.089207	-1.152249
Pt	2.583240	2.391788	2.449573	Pt	2.615987	1.651753	3.013399
Ni	-2.127084	-0.838010	0.870028	Pt	0.715991	1.998541	-3.785322
Ni	-3.716460	3.416541	0.542249	Ni	-1.331720	0.301695	4.742940
Ni	0.260133	-3.779061	3.397115	Ni	-0.135995	-4.279600	2.530872
Ni	3.755830	0.213779	3.279650	Ni	-0.642149	0.158137	2.310004
Ni	-0.297602	3.646836	-3.314569	Ni	1.514399	4.073243	2.618476
Ni	1.735171	-1.660822	-0.247107	Ni	4.444752	1.782526	-1.153827
Ni	-1.438788	-4.475988	-1.579946	Ni	0.052610	2.146378	3.728146
Ni	1.962693	-3.588290	1.382204	Ni	3.519375	-3.380053	-1.112606
Ni	-0.164389	1.776414	-1.610827	Ni	3.621354	-0.728229	3.376994
Ni	-0.025772	-0.021544	0.000947	Ni	1.695022	-1.616247	-0.526010
Ni	-2.730496	-0.259399	3.168931	Ni	-0.722575	-1.933147	-1.230587
Ni	-0.595046	0.566565	2.276224	Ni	-2.159766	-0.834473	0.541948

Ni	1.791456	0.097025	1.564969	Ni	-1.689628	1.623245	0.521746
Ni	4.287342	1.681479	-1.714439	Ni	0.076683	2.083700	-1.232496
Ni	-2.550537	-2.368505	-2.397727	Ni	-3.619432	0.730733	-3.378515
Ni	-0.715948	-2.201456	-0.766050	Ni	1.743573	-0.353716	1.611477
Ni	-1.976658	3.539933	-1.445918	Ni	-0.115628	-2.228312	-3.678312
Ni	-1.844935	-0.158576	-1.576560	Ni	2.191260	0.866049	-0.561312
Ni	2.079499	0.809715	-0.836348	Ni	-3.517448	3.382552	1.111079
Ni	-4.322196	-1.684512	1.794069	Ni	-0.055189	-2.046369	1.209959
Ni	-1.214010	1.160584	4.635607	Ni	0.007857	0.010212	-0.006214
Ni	0.653373	2.156369	0.747928	Ni	-1.738186	0.360724	-1.615734
Ni	-3.740558	-0.310976	-3.232411	Ni	0.183079	4.236555	-2.506517
Ni	1.371684	4.527847	1.568049	Ni	-1.496380	-3.980000	-2.506078
Ni	1.259032	-1.199326	-4.757314	Ni	-4.508812	-1.761575	1.142907
Ni	3.581581	-3.372518	-0.529649	Ni	1.344074	-0.355441	-4.879364
Ni	2.824484	0.280604	-3.207699	Ni	2.285903	2.973114	-1.808015

Coordinates for Pt30Ni25				Coordinates for Pt31Ni24			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-1.291453	1.736941	-1.326317	Pt	2.248304	-1.086917	0.424222
Pt	-3.537320	0.979342	-2.316592	Pt	3.695076	-0.024633	2.251152
Pt	-1.573338	-3.958269	0.637226	Pt	-2.063167	-1.216559	0.824354
Pt	-0.074106	-3.355882	2.746214	Pt	-3.422253	2.127726	1.611311
Pt	-1.862671	3.421794	1.913148	Pt	-1.391000	-3.594001	-1.935924
Pt	-1.454235	1.379883	-3.845814	Pt	3.400649	-2.139298	-1.606505
Pt	-0.298590	-2.754858	-3.297107	Pt	-0.922163	-0.226675	4.206869
Pt	0.074107	3.355892	-2.746212	Pt	2.056620	3.764475	-0.662304
Pt	-2.069561	1.002379	1.075205	Pt	3.527238	2.336684	0.966358
Pt	3.537324	-0.979344	2.316593	Pt	-2.545949	2.323770	-2.637769
Pt	-3.609873	-2.298434	0.485066	Pt	1.691761	-0.148078	3.964282
Pt	-1.978652	1.418012	3.589334	Pt	-1.820164	-2.490094	3.047685
Pt	3.609880	2.298429	-0.485068	Pt	0.301986	-3.757260	2.036586
Pt	-3.506991	-0.557993	2.489735	Pt	0.287935	2.096950	3.781952
Pt	-4.332117	0.229023	0.136443	Pt	1.392111	3.613049	1.900087
Pt	3.506990	0.557991	-2.489737	Pt	2.494537	-2.360356	2.647254
Pt	1.978651	-1.418002	-3.589331	Pt	-1.697622	0.188069	-3.960448
Pt	2.423186	3.132956	1.743418	Pt	3.233181	0.224694	-2.886418
Pt	1.067870	-4.172115	0.539888	Pt	1.222927	-3.515402	-2.178514
Pt	0.298596	2.754855	3.297103	Pt	0.926227	0.266965	-4.203959
Pt	-2.423192	-3.132957	-1.743418	Pt	-1.231737	3.534155	2.143596
Pt	1.291455	-1.736939	1.326314	Pt	1.874530	2.456688	-3.048018
Pt	2.069561	-1.002377	-1.075204	Pt	-2.363863	3.631558	-0.252057
Pt	1.454233	-1.379887	3.845813	Pt	-2.000552	-3.785716	0.684167
Pt	-1.067871	4.172116	-0.539892	Pt	2.069936	1.219462	-0.826463
Pt	1.573342	3.958265	-0.637218	Pt	-3.210037	-0.232261	2.891986
Pt	1.862667	-3.421793	-1.913148	Pt	-3.716311	0.015731	-2.241458
Pt	4.332121	-0.229022	-0.136445	Pt	-0.290885	-2.060287	-3.801825
Pt	2.335132	1.095019	3.449263	Pt	2.314146	-3.655977	0.283735
Pt	-2.335130	-1.095029	-3.449259	Pt	-3.504467	-2.346930	-0.965664
Ni	1.233082	1.164079	-3.805736	Pt	-2.255509	1.089403	-0.425035
Ni	4.407757	1.447381	1.870861	Ni	-0.294282	3.661454	-1.984656
Ni	-2.678112	-3.027163	2.822776	Ni	-4.516896	2.181122	-0.850892
Ni	-1.233083	-1.164073	3.805738	Ni	2.881767	2.140376	3.489085
Ni	-2.584850	3.479459	-2.659961	Ni	-1.379832	-1.019991	-1.703981
Ni	-2.124316	-0.710351	-0.905573	Ni	-2.883939	-2.113406	-3.503699
Ni	-0.192386	-2.284933	-0.761232	Ni	-4.379356	-0.139750	0.410861
Ni	-0.098048	-0.339185	-2.387815	Ni	-0.000616	0.007638	-0.004140
Ni	-4.145611	2.006043	2.157110	Ni	4.380651	0.123652	-0.402123
Ni	0.098047	0.339183	2.387816	Ni	-0.061429	2.417200	0.121238

Ni	2.678112	3.027164	-2.822769	Ni	2.311257	-1.957192	-3.985850
Ni	1.315796	1.488784	-1.370594	Ni	-0.229885	1.207315	-2.085875
Ni	3.408123	-2.777715	0.254627	Ni	0.122362	-4.967789	-0.291105
Ni	-1.315795	-1.488784	1.370593	Ni	0.473497	-2.445812	4.309574
Ni	2.124321	0.710351	0.905575	Ni	0.058228	-2.401687	-0.150725
Ni	0.192381	2.284932	0.761231	Ni	0.229162	-1.173991	2.088884
Ni	4.145608	-2.006046	-2.157108	Ni	1.101276	-0.945386	-1.934244
Ni	-0.374011	-4.734994	-1.569490	Ni	4.484742	-2.206768	0.867402
Ni	-3.408122	2.777709	-0.254631	Ni	-1.103074	0.967749	1.922121
Ni	0.182150	0.670888	4.880652	Ni	1.378032	1.042352	1.691860
Ni	0.000001	0.000001	0.000000	Ni	-2.313425	1.984164	3.971227
Ni	-0.182152	-0.670889	-4.880655	Ni	-4.109238	-2.465183	1.664979
Ni	0.374001	4.734995	1.569488	Ni	-0.127680	4.929410	0.221302
Ni	-4.407759	-1.447375	-1.870858	Ni	4.145356	2.441580	-1.654802
Ni	2.584850	-3.479461	2.659956	Ni	-0.468161	2.484010	-4.239680

Coordinates for Pt32Ni23				Coordinates for Pt33Ni22			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-2.327820	-2.184718	2.882397	Pt	-2.877651	3.016222	1.068794
Pt	-4.316392	-0.334131	-0.469302	Pt	1.942474	0.550557	3.800587
Pt	-2.014093	0.102687	-1.542222	Pt	1.666496	-3.828624	1.209143
Pt	-3.183317	-2.090533	-2.096369	Pt	2.244123	-2.017930	3.120478
Pt	3.847416	-1.566899	-1.328752	Pt	2.981741	-1.109519	-2.913656
Pt	0.409065	0.855770	-4.204157	Pt	0.444911	-4.117831	-1.147139
Pt	3.136363	2.118734	2.129491	Pt	4.239887	-0.783235	-0.563050
Pt	0.465005	-4.250092	-0.786830	Pt	2.567689	3.033230	-1.764541
Pt	3.579770	-2.106155	1.302317	Pt	-3.848213	0.156185	-2.016051
Pt	1.479977	-3.765187	1.611262	Pt	-4.192089	0.787023	0.572520
Pt	-2.593274	0.403072	3.406547	Pt	3.914537	1.766432	0.162838
Pt	-0.417660	-0.884744	4.187467	Pt	-0.637071	1.022513	4.134600
Pt	3.393017	2.662418	-0.510416	Pt	2.169972	3.674366	0.829369
Pt	1.916462	-1.825819	3.393188	Pt	0.382084	2.442901	-0.547158
Pt	-1.879425	2.832834	2.632218	Pt	-0.938699	-2.913375	-3.088398
Pt	-0.441977	4.236868	0.845074	Pt	-2.982509	1.112922	2.900408
Pt	1.651421	0.742813	3.899588	Pt	1.964515	1.212100	-3.644544
Pt	-3.782722	1.547711	1.347509	Pt	2.896687	-3.061215	-1.070183
Pt	-3.577944	2.130723	-1.266889	Pt	0.186163	3.125030	-3.017724
Pt	2.322686	2.151737	-2.922493	Pt	3.841346	-0.140221	2.030270
Pt	4.255533	0.344863	0.485068	Pt	2.043452	-1.348851	0.646553
Pt	2.581208	-0.429989	-3.424484	Pt	-0.459673	4.152959	1.177770
Pt	1.943329	-2.869975	-2.625741	Pt	-2.533560	-2.998248	1.764192
Pt	1.183969	3.970024	-1.303337	Pt	-3.957358	-1.778886	-0.142802
Pt	1.102203	2.201402	0.559637	Pt	-0.203031	-3.088081	2.990540
Pt	-1.706790	-0.709356	-3.935920	Pt	-1.959917	-1.220947	3.635153
Pt	-3.348640	-2.652776	0.483646	Pt	-2.167001	-3.680857	-0.808081
Pt	0.760158	3.076296	2.955349	Pt	-1.767096	-1.201968	-1.358593
Pt	-1.457615	3.726657	-1.565622	Pt	-2.237198	2.003561	-3.074263
Pt	-1.178885	-3.937124	1.262463	Pt	0.648612	-1.019586	-4.141370
Pt	1.539728	-2.000933	-0.266606	Pt	0.926382	2.869590	3.070513
Pt	-1.963702	1.872885	-3.414606	Pt	-1.977026	-0.543595	-3.834448
Ni	-0.745194	-2.978360	-2.835523	Pt	-1.686090	3.823004	-1.199728
Ni	-0.072815	-1.653557	1.743729	Ni	-1.952501	1.286923	-0.609278
Ni	-1.049868	-2.112105	-0.558178	Ni	-0.368178	-2.328984	0.529075
Ni	2.153127	0.411559	-1.022891	Ni	-4.251241	-1.115047	2.374856
Ni	-2.134829	-4.303318	-1.149044	Ni	-0.758124	-4.807418	1.088571
Ni	-3.022188	3.930091	0.543965	Ni	2.058996	0.539366	-1.152382
Ni	-2.144005	-0.427552	1.000291	Ni	0.001761	-0.000287	-0.003371
Ni	4.444456	0.859584	-2.092019	Ni	1.635304	-3.317780	-3.350739

Ni	-1.466857	1.899090	0.261008	Ni	1.681332	1.146851	1.302879
Ni	3.945364	-0.194226	3.044914	Ni	-4.028230	2.655966	-1.261037
Ni	0.138508	3.408410	-3.637604	Ni	0.795598	-1.603276	-1.629385
Ni	0.067770	1.645946	-1.771412	Ni	4.251309	1.118795	-2.363052
Ni	-0.000050	-0.006236	-0.010138	Ni	-0.181041	0.625712	-2.331111
Ni	1.909651	-0.099571	1.472979	Ni	0.764860	4.909496	-1.093893
Ni	-0.675121	1.679181	4.650000	Ni	3.472150	2.366852	2.685735
Ni	-4.448937	-0.883547	2.083196	Ni	-2.045805	-0.535471	1.146391
Ni	-4.059730	0.229067	-3.083576	Ni	0.377400	-1.293464	4.810493
Ni	0.313938	-0.837934	-2.256458	Ni	-1.640650	3.312344	3.360501
Ni	2.214101	4.429531	1.136341	Ni	0.178759	-0.621221	2.316977
Ni	-0.151831	-3.427141	3.625610	Ni	4.103385	-2.710038	1.304874
Ni	0.625251	-1.726401	-4.588933	Ni	-3.553923	-2.414877	-2.724475
Ni	-0.326900	0.802815	2.234649	Ni	-0.791133	1.592371	1.620099
Ni	3.109101	-4.014391	-0.510380	Ni	-0.386933	1.297582	-4.803738

Coordinates for Pt34Ni21				Coordinates for Pt35Ni20			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-2.600936	1.316313	3.217776	Pt	4.305489	0.529913	-0.103090
Pt	-0.213054	-1.321136	2.173343	Pt	-2.052250	-0.878482	1.239996
Pt	0.151290	-4.338923	0.049856	Pt	-2.554817	2.474470	-2.497051
Pt	-2.016913	-0.107491	-1.560365	Pt	0.330962	-1.909968	3.886073
Pt	1.403360	3.528682	-2.075774	Pt	-3.351867	-1.775942	-2.114251
Pt	-4.347331	-0.102955	-0.460949	Pt	4.051534	1.667046	-2.449484
Pt	-4.504923	-0.077211	2.151358	Pt	0.598808	-4.178804	2.668946
Pt	3.239636	2.293226	1.725025	Pt	2.534612	-2.463605	2.520320
Pt	3.390324	-2.019153	1.751627	Pt	1.538870	-2.021074	-3.549049
Pt	-1.216348	3.411916	-2.349215	Pt	-2.251735	0.097290	-3.675404
Pt	4.296000	0.122622	0.509112	Pt	-2.052515	-0.606560	3.801501
Pt	-2.523305	-1.330177	3.314500	Pt	1.794383	2.982279	-2.617664
Pt	1.703133	1.447675	3.693651	Pt	2.258033	-0.066827	3.672228
Pt	-1.421985	-3.593155	2.046836	Pt	3.647862	-0.927374	-2.259669
Pt	-1.835405	1.218340	-3.769496	Pt	-0.471500	3.830058	1.960160
Pt	-1.671228	3.472423	1.936135	Pt	-4.330091	-0.523675	0.090723
Pt	-0.154073	4.340737	-0.077315	Pt	-1.741514	-3.008605	2.655893
Pt	3.718120	-2.057427	-0.902378	Pt	-1.884455	3.881472	-0.341914
Pt	-0.955130	-3.594517	-2.240270	Pt	3.820119	-2.104085	0.167725
Pt	-3.421022	2.041060	-1.775881	Pt	-0.324032	1.910910	-3.887708
Pt	2.459727	1.358074	-3.291690	Pt	3.205279	2.930944	-0.318928
Pt	-3.246005	-2.365944	-1.728619	Pt	-1.147462	-2.329607	-3.478770
Pt	1.257553	2.193930	0.105578	Pt	-1.531217	1.983657	3.516690
Pt	2.590489	-1.298750	-3.236407	Pt	-2.190871	-4.077280	-1.876192
Pt	-1.719223	-1.455764	-3.734713	Pt	0.415379	-3.874603	-1.991442
Pt	1.810234	-1.234465	3.776414	Pt	-3.215947	-2.954941	0.253654
Pt	0.973563	3.582059	2.256710	Pt	-3.788556	2.065805	-0.161121
Pt	-2.420754	-4.359732	-0.247605	Pt	3.356483	1.776971	2.108841
Pt	-0.468200	0.054384	4.335999	Pt	1.094635	2.089516	0.922651
Pt	1.699726	-3.454166	-1.943961	Pt	1.886016	-3.928126	0.404631
Pt	2.287647	0.077308	-1.080097	Pt	-0.284990	2.139716	-1.325127
Pt	0.470851	-0.054915	-4.291243	Pt	1.117781	2.340819	3.486609
Pt	1.233590	-3.442436	2.377170	Pt	2.052528	0.611897	-3.773777
Pt	-3.707361	2.060724	0.927656	Pt	-3.634011	0.896280	2.250470
Ni	-2.754923	4.146209	-0.355402	Pt	1.541577	-1.784949	-0.986038
Ni	0.354342	2.567276	-4.275152	Ni	3.088646	-3.553639	-1.975091
Ni	-1.175971	-2.100572	-0.114651	Ni	-1.052857	-1.973744	-0.899110
Ni	2.753639	-4.147031	0.355761	Ni	4.397529	-0.626575	2.260194
Ni	3.917870	0.169721	3.100794	Ni	-4.401663	0.627104	-2.267939
Ni	0.266275	-1.303458	-2.026453	Ni	0.819491	4.296065	-0.407041

Ni	3.602543	2.307973	-0.990284	Ni	-0.585276	4.275562	-2.669766
Ni	0.153470	1.238947	-2.078386	Ni	-2.139571	0.295749	-1.100727
Ni	-3.422179	-2.192421	0.940694	Ni	-0.014067	-0.234631	-2.416569
Ni	-2.175575	-0.046599	1.035932	Ni	-1.496303	1.651992	0.955288
Ni	-1.345792	2.008993	-0.170903	Ni	-0.035259	-0.465263	-4.962015
Ni	-0.005393	-0.003453	0.001479	Ni	2.199651	4.174219	1.867637
Ni	-0.282086	1.293328	2.030798	Ni	0.017923	0.217234	2.414397
Ni	-0.409256	-2.635935	4.350012	Ni	0.285238	-2.022438	1.281006
Ni	1.329978	-2.019122	0.175251	Ni	-3.061299	3.436851	1.955699
Ni	-4.023759	-0.204078	-3.131449	Ni	2.142900	-0.313123	1.097724
Ni	1.890300	0.070399	1.516585	Ni	0.040301	0.465455	4.969221
Ni	2.502479	4.407526	0.223652	Ni	-0.788893	-4.079489	0.393079
Ni	4.583263	0.131964	-2.171401	Ni	1.952192	0.779614	-1.180782
Ni	0.564266	-2.674008	-4.175912	Ni	-4.107714	-1.737537	2.482393
Ni	-0.565542	2.673184	4.176268	Ni	-0.003489	-0.007944	0.001968

Coordinates for Pt36Ni19				Coordinates for Pt37Ni18			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-2.151089	0.039361	-1.383075	Pt	1.370942	2.130194	0.368072
Pt	-0.059859	-0.520085	4.313977	Pt	-0.162288	-1.618215	1.944833
Pt	1.074112	3.331875	2.608241	Pt	-3.428216	-1.907477	-1.852382
Pt	-3.381175	-2.239094	-1.685212	Pt	3.577896	-2.020926	-1.405621
Pt	3.670085	-1.759855	-1.522461	Pt	0.135688	-1.006559	-2.346329
Pt	0.071054	0.524396	-4.309606	Pt	3.465108	1.907698	1.847928
Pt	3.372848	2.258690	1.675726	Pt	3.367866	-2.391794	1.232183
Pt	3.670654	-2.040920	1.153707	Pt	-0.223792	2.025863	4.587096
Pt	-2.358436	-4.394874	-0.573673	Pt	1.173881	-3.808970	1.732826
Pt	1.611644	-3.130656	-2.546782	Pt	-2.232121	-0.160009	1.198857
Pt	-2.118301	-1.890885	3.289656	Pt	1.954176	0.811478	3.789587
Pt	2.045100	1.061922	3.677826	Pt	0.232759	0.638692	-4.328700
Pt	-2.192442	1.597465	-3.436240	Pt	-4.337891	0.067269	-0.259308
Pt	3.386379	2.563320	-1.009885	Pt	-1.436551	3.215649	2.563435
Pt	-1.621303	3.122719	2.544167	Pt	0.030493	4.343857	0.610298
Pt	-0.326538	4.328703	0.567596	Pt	4.426387	0.253053	-2.306512
Pt	-2.923447	4.021130	0.493571	Pt	-1.921956	1.869853	-3.419444
Pt	0.257937	-4.313589	-0.544527	Pt	-3.396096	2.406620	-1.209093
Pt	-3.683595	2.093099	-1.102953	Pt	1.449144	-3.210344	-2.578386
Pt	2.110286	1.882404	-3.294846	Pt	3.670627	2.250296	-0.790682
Pt	0.073468	-1.586495	1.975492	Pt	-0.056337	-4.294123	-0.631919
Pt	1.164624	3.833068	-1.765702	Pt	1.486914	3.796870	-1.593502
Pt	4.229731	-0.007542	2.704731	Pt	-1.965046	-0.793757	-3.816409
Pt	-2.043046	-1.052357	-3.711676	Pt	0.258151	3.204239	-3.825694
Pt	-4.355311	-0.283800	-0.093551	Pt	-2.668685	-4.179498	-0.788159
Pt	1.175877	2.254925	0.272491	Pt	-2.595724	4.267654	0.440237
Pt	-1.091232	-3.306000	-2.591549	Pt	-1.183436	3.817816	-1.740790
Pt	-2.279547	0.747485	3.580568	Pt	-1.507364	-3.791451	1.526702
Pt	4.328235	0.303049	0.105287	Pt	-1.246344	-3.177774	-2.762710
Pt	2.241151	-1.565780	3.390524	Pt	2.428310	-0.919643	-3.525697
Pt	2.289636	-0.771233	-3.569071	Pt	1.938478	-1.870643	3.411232
Pt	-1.171564	-3.838447	1.692290	Pt	-3.589721	2.043578	1.426360
Pt	1.472972	-2.051667	-0.214385	Pt	-3.621037	-2.301593	0.766291
Pt	-0.095452	3.081154	-3.931542	Pt	-2.349982	0.903513	3.555742
Pt	-3.660532	1.764711	1.529401	Pt	1.267478	3.179518	2.751154
Pt	-3.374367	-2.547124	0.980992	Pt	4.333735	-0.097376	0.256461
Ni	-0.109880	1.025150	2.198255	Pt	-0.241872	-0.576674	4.313077
Ni	-1.148640	-2.101005	-0.287778	Ni	0.130745	1.549586	-1.848219
Ni	0.105217	-1.014194	-2.203565	Ni	-4.472793	-0.302759	2.384224
Ni	4.264458	0.595954	-2.510821	Ni	-1.240769	2.057127	0.209378

Ni	2.076371	0.298481	-1.222678	Ni	0.007696	0.000963	-0.007811
Ni	-0.003821	0.008987	-0.004356	Ni	4.067345	-0.445078	2.847909
Ni	2.033882	0.018371	1.295907	Ni	1.984161	-0.209484	1.384251
Ni	-2.081028	-0.287519	1.217373	Ni	-1.980815	0.223834	-1.393498
Ni	0.132418	-3.163280	3.967160	Ni	1.253295	-2.068919	-0.223906
Ni	-1.408794	1.944066	0.229414	Ni	2.132773	0.130674	-1.120508
Ni	-0.228572	2.089359	4.519660	Ni	2.570039	-4.249243	-0.443016
Ni	2.955619	-4.101665	-0.450448	Ni	-0.097758	0.994590	2.197958
Ni	-4.297349	0.061568	-2.759420	Ni	-0.300592	-3.249607	3.889046
Ni	-0.052240	1.493174	-1.893261	Ni	-4.061696	0.451242	-2.841382
Ni	2.360425	4.495259	0.553623	Ni	2.728860	4.250705	0.750250
Ni	0.229347	-2.091192	-4.518772	Ni	-2.426665	-1.810890	3.188427
Ni	1.569793	-3.693103	1.787704	Ni	-1.275967	-2.007668	-0.398946
Ni	-4.263682	-0.597786	2.511705	Ni	2.315401	1.705958	-3.034973
Ni	-1.492081	3.510296	-1.699209	Ni	0.263168	-2.027935	-4.680217

Coordinates for Pt38Ni17				Coordinates for Pt39Ni16			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	4.334747	0.163078	-0.121377	Pt	3.775921	-1.565350	-1.453071
Pt	-2.234582	-0.794036	-3.645957	Pt	-0.204421	-0.742425	4.288673
Pt	-2.294970	1.822428	-3.161241	Pt	2.233798	2.126000	-3.120095
Pt	-3.484493	-2.041818	-1.592372	Pt	-3.230509	-2.200886	-1.939623
Pt	3.572072	-1.759883	-1.787007	Pt	0.219038	0.732156	-4.314108
Pt	-0.137839	0.736234	-4.283821	Pt	3.229729	2.264326	1.920022
Pt	3.499831	2.039399	1.614535	Pt	3.662669	-2.045660	1.191059
Pt	-2.523522	-4.293059	-0.658047	Pt	-1.126754	-2.241373	-0.431079
Pt	1.316603	3.156612	2.750184	Pt	-3.789446	1.570591	1.448283
Pt	2.302694	-1.857869	3.167517	Pt	2.098951	-0.025265	1.457685
Pt	-2.024049	-2.017393	3.322033	Pt	-2.168661	-2.137730	3.125567
Pt	2.223277	0.806886	3.635196	Pt	1.853002	0.932877	3.858980
Pt	-0.014991	-0.962618	-2.352345	Pt	3.337426	2.681854	-0.733074
Pt	-2.130217	-0.296513	1.382638	Pt	-2.153617	1.747284	-3.407217
Pt	-1.347817	-3.153649	-2.698963	Pt	-1.792042	2.933564	2.641517
Pt	-1.378686	3.047816	2.765456	Pt	-2.218238	-0.446564	1.165814
Pt	-0.153026	4.321491	0.728471	Pt	-0.426124	4.257150	0.717278
Pt	3.624331	-2.249744	0.847405	Pt	0.476964	-1.865425	-4.629629
Pt	0.090748	-4.298877	-0.739011	Pt	-0.022812	1.693585	-1.913707
Pt	-3.598871	2.252416	-0.872731	Pt	0.429897	-4.270226	-0.710348
Pt	2.038914	1.993751	-3.273416	Pt	-3.641781	2.030738	-1.203169
Pt	3.444451	2.517549	-1.049532	Pt	-0.875434	-3.219241	-2.826870
Pt	4.192073	0.612198	-2.701763	Pt	4.370643	0.830661	-2.319984
Pt	1.173908	3.890852	-1.577276	Pt	1.091746	3.992019	-1.462662
Pt	-3.451631	-2.511785	1.040164	Pt	-1.853511	-0.911268	-3.836651
Pt	1.271580	2.186459	0.345569	Pt	-1.055321	-3.963323	1.499888
Pt	-1.524092	3.767853	-1.505584	Pt	2.179331	4.432699	0.881263
Pt	0.146507	-0.740971	4.286136	Pt	-0.483007	1.860573	4.630955
Pt	-2.767073	4.110814	0.772478	Pt	1.580760	-3.686923	1.655879
Pt	0.059095	1.869674	4.653814	Pt	2.473256	-0.532300	-3.543003
Pt	-1.178324	-3.884521	1.581444	Pt	0.074873	-3.319619	3.769761
Pt	0.219020	-3.320148	3.748986	Pt	-2.479261	0.523512	3.563733
Pt	1.395201	-2.086016	-0.424686	Pt	0.860627	3.211317	2.810708
Pt	1.521949	-3.807324	1.517647	Pt	1.774392	-2.947738	-2.637640
Pt	-3.572468	1.823779	1.773364	Pt	2.152268	-1.748369	3.407515
Pt	-4.356964	-0.147031	0.108990	Pt	-4.113563	0.074242	-2.882649
Pt	-2.106320	0.670249	3.788925	Pt	-4.339787	-0.372029	-0.314833
Pt	2.131360	-0.609990	-3.757303	Pt	-1.587994	3.712805	-1.646774
Ni	4.309040	-0.304759	2.472486	Pt	4.363943	0.392008	0.264305
Ni	1.398833	-3.082624	-2.817929	Ni	1.049987	2.133775	0.427594

Ni	2.104054	-0.148995	1.209341	Ni	-3.386971	-2.721669	0.743966
Ni	0.027304	0.895795	2.242747	Ni	-1.972069	0.045544	-1.400664
Ni	-0.001678	0.005478	0.000028	Ni	-4.427163	-0.863874	2.347217
Ni	-4.253004	-0.596023	2.758874	Ni	0.227493	-0.893981	-2.228278
Ni	-2.103425	0.141488	-1.203318	Ni	-0.229181	0.892632	2.228652
Ni	-0.202829	3.299408	-3.731516	Ni	-0.049168	3.375786	-3.828022
Ni	-1.224971	-2.064344	-0.300223	Ni	1.478937	-1.912504	-0.262522
Ni	2.794084	-4.167511	-0.818694	Ni	-3.030551	3.913022	0.537033
Ni	-4.315472	0.295399	-2.477638	Ni	0.050190	-1.589921	1.822810
Ni	-1.330325	1.976404	0.375173	Ni	3.025676	-3.916948	-0.535968
Ni	2.543540	4.373075	0.682670	Ni	2.103191	0.400026	-1.120193
Ni	0.101287	-1.597050	1.802426	Ni	4.186607	-0.051071	2.919225
Ni	-0.048136	-1.899028	-4.714871	Ni	-1.479201	1.912291	0.262582
Ni	-0.095950	1.608507	-1.816304	Ni	0.003407	0.002735	-0.000742
Ni	2.019163	0.308468	-1.291770	Ni	-2.228114	-4.484108	-0.885351

Coordinates for Pt40Ni15				Coordinates for Pt41Ni14			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.855268	4.040073	1.481878	Pt	3.577944	2.507858	0.394339
Pt	-2.147630	-0.836219	1.094321	Pt	-0.506887	1.425652	-4.785021
Pt	3.773921	2.088543	0.433842	Pt	0.317512	-3.247032	2.889387
Pt	0.005187	-3.361906	2.763839	Pt	-1.275447	3.991520	1.294611
Pt	2.354439	-2.083255	3.051799	Pt	0.124261	-4.937469	0.876975
Pt	-1.997283	2.919834	3.560400	Pt	-4.307371	-0.048927	0.444156
Pt	-0.384714	-4.957272	0.693019	Pt	2.063545	1.012987	-1.102329
Pt	4.317018	-0.390237	-0.498452	Pt	-0.295817	-2.926255	-3.258392
Pt	0.625248	2.743853	3.329380	Pt	0.309296	2.928772	3.254873
Pt	-3.787012	-0.022281	-2.123675	Pt	-3.596452	-2.489092	-0.360227
Pt	-4.318008	0.396257	0.485730	Pt	-3.463535	2.428643	1.075631
Pt	2.144730	-1.231597	0.599510	Pt	-0.938579	0.706181	4.224355
Pt	-0.825590	0.653525	4.230160	Pt	2.257299	-0.974293	0.666113
Pt	0.184672	2.519037	-0.348099	Pt	1.412654	3.985788	1.034508
Pt	-0.651284	-2.745550	-3.351263	Pt	-1.762724	-0.723307	-3.950273
Pt	-3.150016	2.711160	1.212605	Pt	-1.190801	1.434630	1.744115
Pt	2.339788	3.387768	-1.451840	Pt	3.273041	-0.442375	-2.887570
Pt	-3.229589	-2.430978	-2.972077	Pt	-3.296587	0.412391	2.867447
Pt	1.925196	1.682441	-3.501094	Pt	1.805481	1.756384	-3.585434
Pt	3.829622	0.034089	2.129941	Pt	3.776174	0.507276	2.172882
Pt	3.181604	-0.639644	-2.917621	Pt	1.249848	-3.960811	-1.303909
Pt	0.827160	-4.053332	-1.456986	Pt	2.517768	-1.716592	3.149048
Pt	1.019322	-1.482371	-1.802903	Pt	-1.489772	-1.458184	-1.473916
Pt	-3.195512	0.671951	2.929675	Pt	2.319518	-2.829245	-3.439427
Pt	3.221255	2.445313	2.969280	Pt	1.993552	3.576126	-1.561108
Pt	-3.828791	-2.089907	-0.438485	Pt	-0.334385	3.245545	-2.886477
Pt	1.862249	3.792601	1.172456	Pt	2.909378	2.878183	2.909648
Pt	-0.391670	1.649418	-4.724566	Pt	-1.426642	-4.016293	-1.029028
Pt	0.830886	-0.627674	-4.256201	Pt	4.394088	0.039624	-0.443848
Pt	0.385685	-1.633955	4.725696	Pt	0.926965	-0.713680	-4.193290
Pt	-1.848091	-0.397997	-3.923628	Pt	0.487340	-1.424325	4.785072
Pt	-0.011903	3.383787	-2.789900	Pt	-3.763929	-0.477946	-2.157725
Pt	-2.331620	2.071866	-3.020899	Pt	-0.143745	4.939364	-0.876284
Pt	1.962298	-3.802367	0.958476	Pt	3.471419	-2.441532	-1.107440
Pt	-1.973093	3.770208	-0.965283	Pt	-2.501598	1.699522	-3.117107
Pt	-1.955435	-1.689031	3.540182	Pt	1.735491	0.738256	3.923438
Pt	-2.355730	-3.403344	1.456721	Pt	-4.056678	-2.002273	2.176803
Pt	-1.840494	-3.768195	-1.164498	Pt	2.329595	-3.537356	1.123591
Pt	3.231224	-2.749494	-1.231841	Pt	-2.315270	3.502376	-1.111564
Pt	1.845295	0.409375	3.925834	Pt	-1.822752	-1.744379	3.556507

Ni	0.372185	5.042656	-0.696572	Pt	-2.008803	-3.544588	1.553918
Ni	-0.954425	1.403379	1.723069	Ni	-4.409985	1.918544	-1.314944
Ni	2.021343	-2.962860	-3.622901	Ni	-2.374335	2.869143	3.489465
Ni	-4.199057	2.406327	-1.192649	Ni	4.506713	-1.962186	1.345196
Ni	-0.194051	0.789221	-2.272446	Ni	0.057514	-2.379396	0.426476
Ni	1.544372	1.175993	1.437828	Ni	-1.947971	-0.972479	1.055170
Ni	-4.291427	-1.678392	2.189135	Ni	1.400757	1.391152	1.407772
Ni	0.185373	-0.783774	2.279099	Ni	0.232114	-0.689990	2.305802
Ni	-1.553387	-1.170771	-1.431491	Ni	4.111679	2.040840	-2.216579
Ni	-0.190864	-2.392573	0.337563	Ni	1.115562	-1.368398	-1.662014
Ni	2.050752	0.816572	-1.047458	Ni	-0.242107	0.687914	-2.303351
Ni	4.293601	-2.460690	1.219329	Ni	-0.008753	0.002130	-0.001111
Ni	-2.054935	1.174935	-0.587894	Ni	-2.155653	0.942208	-0.646720
Ni	-0.003614	0.006501	-0.002083	Ni	-0.067469	2.377650	-0.423644
Ni	4.186072	1.658983	-2.137959	Ni	-2.972461	-2.918260	-2.948572

Coordinates for Pt42Ni13				Coordinates for Pt43Ni12			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.373038	-3.447789	-2.641589	Pt	-0.668483	4.177550	1.268633
Pt	2.490470	-0.302268	-3.597237	Pt	0.613916	-3.116265	2.992017
Pt	-0.039373	-0.540134	4.352083	Pt	2.963054	-1.791731	2.728775
Pt	-0.711918	1.989836	4.550919	Pt	1.378080	-3.191371	-3.622844
Pt	0.333508	-1.563731	1.994618	Pt	-3.772199	-2.180830	0.501845
Pt	4.006573	-1.043365	-1.455690	Pt	-0.100161	-4.882394	1.166683
Pt	2.835883	2.818587	1.742590	Pt	4.201172	-0.375395	-1.282745
Pt	3.948590	-1.357063	1.216018	Pt	1.184495	3.051066	2.925000
Pt	-2.085460	-0.377824	-1.415634	Pt	-4.164212	-0.240238	-1.370063
Pt	-1.808359	-2.308140	3.267936	Pt	-4.152945	0.373400	1.257024
Pt	4.239457	1.116987	0.199031	Pt	2.254878	-1.149023	0.290265
Pt	1.729195	1.398912	3.751829	Pt	-0.699655	1.626843	1.832440
Pt	-4.239662	-1.118508	-0.157255	Pt	4.518958	-2.296412	0.583946
Pt	-4.143198	-1.431213	2.451649	Pt	1.934488	3.909015	0.495014
Pt	1.449617	4.762686	0.626563	Pt	-1.149722	-3.050630	-2.941064
Pt	-1.112447	4.207287	0.526915	Pt	-3.006392	2.798660	1.541753
Pt	3.649906	-3.422239	-0.407695	Pt	2.588738	-0.857181	-3.406439
Pt	1.127708	-4.180806	-0.521954	Pt	-1.306206	1.212462	-4.691719
Pt	2.866697	3.187816	-0.924011	Pt	-2.539537	-0.770737	-3.491998
Pt	0.041728	0.548557	-4.319396	Pt	1.216028	1.396503	-3.948010
Pt	1.794030	2.313062	-3.272350	Pt	4.184446	0.253825	1.381105
Pt	-0.415599	-4.030218	1.678852	Pt	0.648016	-4.115563	-1.253064
Pt	-2.425735	1.208429	-3.450513	Pt	-2.617149	0.846130	3.413720
Pt	-0.632396	3.072503	-3.922353	Pt	3.743398	2.173755	-0.489190
Pt	0.721351	-1.993078	-4.548012	Pt	3.002606	-2.818576	-1.582860
Pt	4.100589	0.758527	2.794559	Pt	-1.854713	-1.399098	-1.066412
Pt	-1.857907	1.733092	0.201224	Pt	-0.632232	3.116762	-3.017446
Pt	2.218904	-3.336616	1.789902	Pt	3.656702	2.734760	2.094157
Pt	-2.232677	2.770239	2.560736	Pt	-0.029198	1.000758	4.269879
Pt	-2.848797	-3.159454	0.928470	Pt	-4.455194	2.246322	-0.581951
Pt	-1.718242	-1.412377	-3.777470	Pt	0.033954	-1.012538	-4.243727
Pt	0.370395	3.448696	2.640774	Pt	1.299927	-1.219125	4.691534
Pt	2.234395	-2.761130	-2.531192	Pt	2.522899	0.777576	3.465237
Pt	2.451786	-1.176262	3.444624	Pt	3.688646	1.513432	-3.047951
Pt	-4.010889	1.003730	1.468276	Pt	-2.935017	1.766638	-2.689079
Pt	-2.477118	0.288442	3.569389	Pt	1.957147	3.273022	-2.165908
Pt	-2.196960	3.330669	-1.824983	Pt	0.046192	2.480051	-0.584118
Pt	2.115383	0.722086	-1.240452	Pt	2.236294	-3.695193	0.900000
Pt	-2.838469	-2.849424	-1.743650	Pt	-3.692846	-1.517716	3.041035
Pt	0.413409	3.996456	-1.678480	Pt	-2.256733	3.656229	-0.887159

Pt	-1.440180	-4.765927	-0.623661	Pt	-1.221078	-1.391406	3.948251
Pt	-4.010475	1.378333	-1.235074	Pt	-1.937796	-3.268105	2.144773
Ni	0.661287	-3.121755	3.982596	Pt	-1.913351	-3.924178	-0.466894
Ni	-4.163278	-0.772190	-2.838746	Ni	-3.708597	-2.786661	-2.128499
Ni	4.220446	1.443983	-2.479203	Ni	1.774819	1.314534	1.011898
Ni	-0.689639	-2.298813	-0.302832	Ni	-1.776768	-0.736774	1.468060
Ni	-1.997358	-0.694402	1.187693	Ni	0.628454	-0.594475	2.263152
Ni	-0.338232	0.961036	2.194052	Ni	-0.001622	-0.004122	-0.001957
Ni	0.701449	2.294756	0.306466	Ni	1.781676	0.724743	-1.473297
Ni	1.758143	-1.653882	-0.200204	Ni	0.094279	4.957272	-1.186601
Ni	0.350040	-0.965096	-2.190414	Ni	-2.153864	1.079721	-0.283555
Ni	-3.705278	3.476482	0.415530	Ni	-0.624816	0.580993	-2.264286
Ni	-0.299404	1.483761	-1.895009	Ni	0.669934	-1.538762	-1.751812
Ni	0.004790	-0.001644	0.001475	Ni	-0.046210	-2.357989	0.568506
Ni	1.976359	0.370396	1.350291	Ni	-1.406498	3.240469	3.675944

Coordinates for Pt44Ni11				Coordinates for Pt45Ni10			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.227452	-3.076782	3.959747	Pt	0.391562	3.720817	-2.302861
Pt	2.067996	1.942633	-3.306656	Pt	0.645757	-1.350552	2.060251
Pt	-3.259542	-2.365246	-1.650409	Pt	-3.082469	1.129264	-2.945047
Pt	3.750710	-1.650134	-1.481104	Pt	-2.389590	-0.260766	-0.829682
Pt	0.050809	0.489746	-4.381460	Pt	-3.483936	-2.635453	-0.621819
Pt	3.307776	2.400247	1.674832	Pt	3.384740	-1.696473	-2.169757
Pt	-2.173716	-0.369903	1.275644	Pt	1.170120	1.661935	-3.854687
Pt	3.736713	-1.967245	1.184775	Pt	-0.321479	-1.302068	-2.160503
Pt	2.264944	-1.511487	3.438342	Pt	3.481042	2.598803	0.636917
Pt	-0.964722	-3.437940	-2.594911	Pt	2.726757	1.577397	3.003171
Pt	2.139746	0.081438	1.380965	Pt	3.984265	-1.727237	0.451168
Pt	-2.083746	-1.964920	3.352120	Pt	4.722935	0.514069	1.631105
Pt	1.982184	1.192665	3.730066	Pt	-1.182696	-1.663222	3.910407
Pt	0.328049	-2.183987	-4.600560	Pt	1.294911	-2.705243	4.129022
Pt	-4.350818	-0.735083	2.563706	Pt	-3.541305	-0.559863	3.514840
Pt	-1.727757	3.118065	2.505387	Pt	0.981254	-0.034746	4.301184
Pt	0.158783	-1.092207	-2.295867	Pt	-0.542513	4.350951	0.179694
Pt	-0.473424	4.335212	0.467527	Pt	3.080410	-3.893923	-0.746211
Pt	3.065982	-3.955785	-0.386595	Pt	0.534506	-4.322645	-0.168780
Pt	0.453863	-4.316943	-0.458854	Pt	-4.015555	1.766160	-0.451620
Pt	-3.719297	1.947421	-1.194537	Pt	-3.063350	3.905731	0.755842
Pt	3.330752	2.662602	-1.039960	Pt	2.874206	2.630620	-2.018952
Pt	4.280505	0.718873	-2.530799	Pt	4.222859	0.557873	-0.954858
Pt	1.111172	2.277551	0.265080	Pt	3.552469	0.574641	-3.501414
Pt	0.998347	3.879450	-1.786038	Pt	-0.630411	-2.610724	-4.338030
Pt	-2.021918	-1.180715	-3.741848	Pt	-0.976539	0.068920	-4.300206
Pt	-0.227709	3.076593	-3.959878	Pt	-2.795249	-1.608171	-3.085529
Pt	-3.066241	3.955599	0.386464	Pt	1.038872	2.325776	-0.205388
Pt	-0.331114	2.146952	4.530501	Pt	-2.031104	-4.575958	0.424104
Pt	-0.995527	-3.868113	1.760445	Pt	1.518381	-1.020198	-4.012688
Pt	-4.215915	-0.141095	-2.724812	Pt	0.627853	2.575959	4.266276
Pt	1.683830	-3.586178	1.824949	Pt	-0.397957	-3.743200	2.310439
Pt	-3.790558	1.679300	1.500425	Pt	-1.257976	2.685099	-4.055861
Pt	-3.332558	-2.704693	1.030709	Pt	2.249283	-3.391237	1.701941
Pt	-2.375606	0.739670	3.645426	Pt	-3.373641	1.706398	2.179236
Pt	0.948155	3.400421	2.608266	Pt	-2.847094	-2.619996	2.007268
Pt	1.757620	-3.154476	-2.529764	Pt	-1.488988	1.028567	3.973186
Pt	-0.045041	-0.474706	4.330939	Pt	-1.241765	3.309332	2.561608
Pt	2.383368	-0.734042	-3.641497	Pt	1.367016	3.663224	1.997285
Pt	4.364781	0.454847	0.081842	Pt	1.273142	-3.344631	-2.579878

Pt	-4.389755	-0.447472	-0.116229	Pt	3.102920	-1.103013	2.935900
Pt	-1.677555	3.590731	-1.821772	Pt	-4.264528	-0.556393	0.983594
Pt	-2.269907	1.498592	-3.413835	Pt	-4.798796	-0.511926	-1.655688
Pt	-2.175794	-4.496969	-0.511510	Pt	-2.204552	3.361096	-1.683099
Ni	-0.002282	-0.001655	-0.001156	Pt	-1.376919	-3.696344	-1.977678
Ni	1.474717	-1.913888	-0.188409	Ni	-1.711584	-0.269109	1.700511
Ni	0.105201	-1.489792	1.908585	Ni	2.283766	0.242513	0.786139
Ni	-1.485340	1.906181	0.183030	Ni	-0.609891	1.298855	-1.964063
Ni	-0.169800	1.034412	2.192279	Ni	2.074151	4.645911	-0.411944
Ni	2.066493	0.341900	-1.231922	Ni	1.717317	0.272580	-1.689753
Ni	-2.039736	-0.065613	-1.318849	Ni	1.491047	-1.881646	-0.360371
Ni	-1.050835	-2.177021	-0.246003	Ni	0.005453	0.005185	0.004416
Ni	-0.115825	1.482084	-1.913964	Ni	0.297947	1.242381	2.064007
Ni	4.280604	0.146559	2.765953	Ni	-1.481790	1.883344	0.368860
Ni	2.211484	4.564345	0.521196	Ni	-0.983261	-2.218664	0.207998

Coordinates for Pt46Ni9				Coordinates for Pt47Ni8			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-3.071617	-2.815597	1.263220	Pt	-4.410413	0.202562	-2.569457
Pt	0.349616	-1.573090	1.972124	Pt	-2.200333	0.105257	-1.279648
Pt	-3.319357	-2.542485	-1.414244	Pt	-0.039080	-2.126143	-4.555631
Pt	3.720900	-1.494481	-1.840430	Pt	-2.253655	-1.001110	-3.662889
Pt	-0.341671	0.510040	-4.316197	Pt	3.591639	-1.925362	-1.704711
Pt	3.328718	2.518288	1.430188	Pt	-0.107171	0.508425	-4.382789
Pt	3.886012	-1.787483	0.842774	Pt	3.549977	2.134766	1.531621
Pt	4.421399	0.305658	2.368882	Pt	0.160323	-3.125218	3.937893
Pt	-0.627532	4.330016	0.568264	Pt	3.701769	-2.285371	1.027327
Pt	-1.725297	-2.081696	3.488888	Pt	4.409913	-0.195532	2.572906
Pt	2.031754	0.477877	-1.452165	Pt	2.202437	-0.103765	1.281721
Pt	2.233721	1.224306	3.538082	Pt	-2.079627	-1.838918	3.440736
Pt	-4.014066	-0.936051	2.872587	Pt	2.255238	0.996262	3.664258
Pt	-1.656756	3.006190	2.696475	Pt	-4.269697	-0.426142	2.771317
Pt	2.078031	-0.601668	-3.845196	Pt	-1.366441	3.223173	2.625160
Pt	3.190796	-3.812405	-0.710189	Pt	-0.093132	4.342837	0.527820
Pt	0.602689	-4.288361	-0.565135	Pt	2.783941	-4.245910	-0.576521
Pt	-3.934308	1.808329	-0.843428	Pt	0.095862	-4.387552	-0.520906
Pt	3.148532	2.886101	-1.294852	Pt	-3.645500	2.277472	-0.997388
Pt	4.076723	0.947167	-2.918980	Pt	-2.533391	-4.319470	-0.447111
Pt	0.667205	3.964681	-1.817612	Pt	3.440478	2.419357	-1.156434
Pt	1.020943	2.320377	0.196725	Pt	-0.087122	1.588074	-1.992190
Pt	-2.257608	-1.247949	-3.578551	Pt	4.205528	0.431862	-2.725196
Pt	-2.011148	-4.586959	-0.394683	Pt	1.232778	3.847049	-1.783980
Pt	-1.993963	3.521828	-1.620889	Pt	2.126549	-0.865244	-3.716882
Pt	-0.044949	2.085692	4.568133	Pt	2.094849	1.831832	-3.435280
Pt	-0.687988	-3.972495	1.796773	Pt	-3.476970	-2.454745	1.167794
Pt	1.696651	2.088214	-3.496900	Pt	-2.721976	4.191961	0.585337
Pt	4.358164	0.641821	-0.249099	Pt	0.050341	2.124883	4.554480
Pt	0.336777	-0.512781	4.368504	Pt	-1.211578	-3.800566	1.781535
Pt	-3.202515	3.801662	0.715011	Pt	-0.164256	3.183898	-3.990980
Pt	-4.496654	-0.325463	-2.392884	Pt	1.493481	-3.770339	1.751284
Pt	-2.072551	0.588053	3.798863	Pt	-3.577553	1.955617	1.698181
Pt	1.015338	3.437203	2.573031	Pt	-3.546190	-2.137679	-1.533876
Pt	1.646729	-3.015384	-2.692350	Pt	-2.134818	0.885816	3.762975
Pt	2.648385	-1.436913	3.229162	Pt	1.395762	-2.116582	-0.282556
Pt	2.039989	4.659711	0.403449	Pt	1.321171	3.285832	2.556228
Pt	-3.684062	1.463823	1.832368	Pt	0.109162	-0.509977	4.330767
Pt	-4.356667	-0.651684	0.277871	Pt	1.390563	-3.249083	-2.653479
Pt	-0.711433	3.095081	-3.894626	Pt	2.316749	-1.722999	3.342678

Pt	2.013475	-3.569057	1.633383	Pt	-4.465363	-0.112642	0.103759
Pt	-2.645176	1.439858	-3.230482	Pt	-2.133676	-0.211522	1.378798
Pt	-1.008820	-3.412593	-2.531633	Pt	-1.502325	3.780427	-1.720039
Pt	0.033231	-2.096436	-4.563314	Pt	4.413891	0.121084	-0.111640
Pt	-2.244140	-0.163522	-1.192992	Pt	-2.354369	1.743620	-3.373376
Pt	0.703538	-3.151492	3.952822	Pt	-1.317992	-3.286582	-2.554698
Ni	-0.347490	1.499439	-1.888521	Pt	2.539279	4.313486	0.454809
Ni	-1.549674	1.836849	0.348266	Ni	1.226557	2.089032	0.221771
Ni	-1.942332	-0.449459	1.391540	Ni	-1.226316	-2.095960	-0.216404
Ni	1.540564	-1.845199	-0.344517	Ni	-0.016911	-1.032493	-2.208483
Ni	2.142706	0.146147	1.150226	Ni	0.076340	-1.517305	1.910855
Ni	-0.970617	-2.220695	-0.193574	Ni	-1.316747	2.036760	0.287914
Ni	0.015710	-1.016523	-2.205273	Ni	0.004080	0.001972	0.003531
Ni	-0.024817	1.008171	2.209019	Ni	0.023699	1.031319	2.203066
Ni	-0.005085	-0.004659	0.002088	Ni	2.040231	0.209607	-1.323980

Coordinates for Pt48Ni7				Coordinates for Pt49Ni6			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	0.180013	-2.439945	-4.396952	Pt	-0.942634	-2.362620	-0.298993
Pt	-2.107686	-1.366237	-3.635757	Pt	1.958736	-3.533769	1.797760
Pt	3.725752	-1.868158	-1.484045	Pt	-2.143807	-0.200319	-1.387044
Pt	-0.017160	0.193537	-4.414200	Pt	-3.171033	-2.635057	-1.735970
Pt	2.095109	1.685493	-3.513443	Pt	3.915463	-1.362375	-1.558794
Pt	4.347059	0.189944	2.686701	Pt	0.013019	0.550893	-4.391079
Pt	-2.080777	-1.705598	3.513113	Pt	3.176701	2.636317	1.732217
Pt	2.173057	0.092638	1.339183	Pt	3.954755	-1.733961	1.179877
Pt	2.103704	1.352443	3.643210	Pt	4.282530	0.412786	2.774232
Pt	-4.322059	-0.457360	2.696367	Pt	2.143727	0.207317	1.385093
Pt	-1.600474	3.317621	2.365305	Pt	-1.934145	-2.169620	3.342349
Pt	-0.339781	4.405626	0.222849	Pt	1.922310	1.267322	3.777516
Pt	2.997583	-4.138690	-0.213458	Pt	0.479957	-2.039399	-4.582790
Pt	0.016242	-0.213268	4.365109	Pt	-4.286410	-1.081145	2.583486
Pt	0.318832	-4.408501	-0.210108	Pt	-1.947683	2.948881	2.586090
Pt	-3.734309	2.011961	-1.241426	Pt	-0.779995	4.323547	0.558420
Pt	3.400617	2.518033	-1.272454	Pt	3.411145	-3.785940	-0.479033
Pt	4.255040	0.432593	-2.662753	Pt	0.785022	-4.373454	-0.552081
Pt	1.098581	3.812159	-2.059436	Pt	-3.907168	1.733874	-1.149965
Pt	-4.350737	-0.202684	-2.679810	Pt	-0.229783	1.593390	-1.990308
Pt	2.262218	-1.021306	-3.605835	Pt	-1.972649	3.543339	-1.763381
Pt	-2.311458	-4.467645	-0.202032	Pt	3.147305	2.939867	-1.009057
Pt	-2.956650	4.072919	0.228749	Pt	4.222649	1.066974	-2.541260
Pt	-0.185346	2.421463	4.406939	Pt	0.736106	4.060109	-1.735649
Pt	-1.074750	-3.729477	2.014766	Pt	-1.920136	-1.267419	-3.778162
Pt	-0.219733	2.881657	-4.216871	Pt	0.948261	2.359342	0.302212
Pt	1.625959	-3.565349	2.045565	Pt	-1.885095	-4.722481	-0.600588
Pt	-3.722709	1.878697	1.478350	Pt	-3.350343	3.735331	0.490519
Pt	-3.400446	-2.419398	-1.462140	Pt	-0.470349	2.043288	4.579916
Pt	-2.283858	1.027104	3.645734	Pt	-0.718094	-4.006958	1.738773
Pt	3.449781	2.425873	1.484133	Pt	-0.458588	3.180185	-3.984328
Pt	1.095875	3.549698	2.392004	Pt	1.706958	-1.893047	-0.235962
Pt	1.612889	-3.355406	-2.387919	Pt	0.712018	3.446035	2.681206
Pt	3.779510	-2.028808	1.268673	Pt	-3.909647	1.386592	1.552893
Pt	1.178887	2.261588	0.104012	Pt	-3.174733	-2.982803	1.016551
Pt	2.306566	-1.376451	3.512764	Pt	-2.412158	0.512196	3.680845
Pt	-3.387371	-2.546919	1.256450	Pt	-0.005965	-0.546514	4.344945
Pt	-2.174986	-0.099325	-1.335568	Pt	1.957002	2.163160	-3.332813
Pt	-4.460711	-0.335024	0.008337	Pt	1.971579	-2.974821	-2.616969
Pt	-1.646082	3.570342	-2.016657	Pt	2.404002	-1.408143	3.442556

Pt	1.502129	-2.066408	-0.102382	Pt	-2.146065	-0.543341	1.289398
Pt	4.407737	0.324902	-0.021009	Pt	-4.405930	-0.766455	-0.098697
Pt	-0.111964	1.440703	-2.104092	Pt	2.399663	-0.496656	-3.636167
Pt	-1.092229	-3.520473	-2.348046	Pt	4.356115	0.763822	0.085910
Pt	0.205139	-2.841454	4.150606	Pt	-2.438732	1.429808	-3.472234
Pt	-2.163714	-0.229362	1.342622	Pt	-0.710541	-3.444879	-2.682483
Pt	-2.352210	1.382796	-3.541671	Pt	1.890780	4.718308	0.607731
Pt	2.356150	4.531881	0.211869	Pt	0.455249	-3.115331	3.937714
Ni	2.070662	0.208265	-1.298014	Pt	-4.284616	-0.402967	-2.774131
Ni	0.097899	-1.380869	2.016336	Ni	-1.632131	1.820048	0.240602
Ni	0.089723	-1.185210	-2.133433	Ni	0.236067	-0.991434	-2.230905
Ni	-0.092581	1.175306	2.138783	Ni	2.056865	0.518649	-1.239996
Ni	-1.121557	-2.171321	-0.097351	Ni	0.002496	0.003736	0.004668
Ni	-0.002119	-0.007356	0.003974	Ni	-0.229502	0.992481	2.225741
Ni	-1.439257	1.982758	0.114363	Ni	0.221450	-1.516688	1.919620

Coordinates for Pt50Ni5				Coordinates for Pt51Ni4			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.103147	-1.424505	2.131746	Pt	1.530430	-2.051347	-0.298879
Pt	-3.424935	-2.321062	-1.725047	Pt	-3.464047	-2.358102	-1.607550
Pt	1.436424	-2.127768	0.021533	Pt	3.766486	-1.731613	-1.710320
Pt	-1.991712	1.413854	-3.697996	Pt	-0.105811	0.531803	-4.402842
Pt	0.316081	0.156885	-4.373774	Pt	-1.169483	-2.277468	-0.257302
Pt	3.391885	2.288778	1.705652	Pt	3.418998	2.353850	1.581554
Pt	3.568948	-2.116672	1.560429	Pt	3.832429	-2.072120	1.044931
Pt	4.090731	0.066885	2.958646	Pt	4.415743	0.058277	2.617135
Pt	2.865760	-4.249232	0.045038	Pt	-2.029784	-1.979099	3.419739
Pt	0.415732	-2.480786	-4.374279	Pt	2.201116	1.126451	3.741163
Pt	-1.398960	-3.748712	2.008099	Pt	-4.220708	-0.692661	2.690843
Pt	2.509359	-1.156924	-3.464932	Pt	-1.633389	3.196839	2.693829
Pt	1.907867	1.316941	3.777132	Pt	-0.358640	4.387224	0.550172
Pt	-0.322871	-0.160252	4.467716	Pt	3.049816	-4.086488	-0.592296
Pt	-1.689673	3.484321	2.246532	Pt	0.368807	-4.433497	-0.564091
Pt	-0.422138	2.531483	4.435292	Pt	0.099636	-0.544676	4.450111
Pt	3.804753	-2.048027	-1.192785	Pt	3.349469	2.681096	-1.125096
Pt	1.261275	2.230041	0.165186	Pt	4.277725	0.712827	-2.741148
Pt	-3.604534	2.147403	-1.577744	Pt	1.017917	3.941641	-1.762489
Pt	1.373267	3.701526	-2.008503	Pt	-2.170227	-1.109849	-3.706398
Pt	-0.179068	4.471593	0.138510	Pt	-2.330226	-4.541912	-0.511913
Pt	4.534142	0.260474	-2.373325	Pt	-3.051083	4.083851	0.582324
Pt	-1.881720	-1.322755	-3.788210	Pt	-0.128469	2.139086	4.661407
Pt	-2.514607	-4.452425	-0.351074	Pt	-1.032464	-3.979914	1.790092
Pt	-2.864376	4.249919	-0.064204	Pt	-0.325884	3.201721	-3.996103
Pt	0.180353	-4.470955	-0.156277	Pt	2.030160	2.010971	-3.461058
Pt	-1.435569	2.128193	-0.033359	Pt	1.733974	-3.740842	1.752859
Pt	0.203952	2.788361	-4.200584	Pt	-3.834784	2.072638	-1.044597
Pt	2.399368	1.579685	-3.374720	Pt	2.144909	0.358183	-1.375433
Pt	1.367480	-3.644235	2.211768	Pt	-3.363572	-2.657211	1.139595
Pt	-1.260418	-2.229616	-0.177012	Pt	-3.731196	1.705318	1.687928
Pt	-3.589826	-2.387028	1.033388	Pt	-1.530407	2.048105	0.291306
Pt	-4.472797	-0.256523	2.328186	Pt	1.123096	3.401760	2.615286
Pt	-2.533093	1.149224	3.450182	Pt	-2.213102	-0.023459	-1.312774
Pt	1.076770	3.588797	2.450200	Pt	1.603476	-3.155163	-2.684263
Pt	2.271938	0.130442	-1.186943	Pt	2.433174	-1.619189	3.395726
Pt	1.660278	-3.439420	-2.243900	Pt	-2.251063	0.718579	3.753581
Pt	2.017276	-1.405243	3.687398	Pt	-4.419056	-0.381918	0.071711
Pt	-4.414814	-0.167019	-0.316283	Pt	-0.164187	1.605869	-2.003989
Pt	-1.338539	3.599113	-2.208149	Pt	-1.733976	3.743233	-1.753320

Pt	3.625156	2.420437	-1.045485	Pt	0.157187	-1.606836	2.008218
Pt	4.413557	0.166392	0.333675	Pt	4.466695	0.393096	-0.065086
Pt	-2.077243	-0.033808	-1.507135	Pt	-2.433960	1.619200	-3.398029
Pt	-1.051527	-3.541832	-2.443548	Pt	-1.113674	-3.385489	-2.640310
Pt	-3.766893	2.018422	1.178612	Pt	2.216633	0.030865	1.313449
Pt	-0.206114	-2.843305	4.258116	Pt	0.316296	-3.201663	4.000111
Pt	-0.211380	1.268395	2.220516	Pt	0.116734	-2.096665	-4.596209
Pt	-4.144938	-0.067297	-3.012292	Pt	2.284133	4.480083	0.496390
Pt	2.515994	4.453112	0.331906	Pt	-0.065133	1.073560	2.337511
Pt	-2.423682	-1.572960	3.360448	Pt	2.225205	-0.730362	-3.766702
Ni	-2.185908	-0.125356	1.137524	Pt	-4.412854	-0.048299	-2.617337
Ni	0.202741	-1.208357	-2.133964	Ni	1.117176	2.191102	0.242809
Ni	0.000593	0.000295	-0.008197	Ni	0.057134	-1.025485	-2.247903
Ni	0.099577	1.358411	-2.049351	Ni	-0.003130	0.002907	-0.002424
Ni	1.999228	0.032699	1.445639	Ni	-2.064242	-0.338808	1.316082

Coordinates for Pt52Ni3				Coordinates for Pt53Ni2			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.604943	4.187193	1.357453	Pt	-2.248889	-0.242146	1.267927
Pt	-1.751461	-1.479420	3.863796	Pt	3.936900	-1.804242	-1.193920
Pt	2.618470	-2.056703	3.004656	Pt	2.177499	1.579736	-3.542448
Pt	-1.614598	3.180359	3.584046	Pt	3.270361	2.702518	1.476711
Pt	-0.459796	-5.021325	0.991720	Pt	-3.813885	1.767057	-1.596619
Pt	4.372217	-0.579078	-0.856519	Pt	2.130146	0.295810	1.448754
Pt	1.814852	1.279808	1.319008	Pt	2.241142	-1.038368	3.754847
Pt	0.987708	2.936231	3.184993	Pt	1.904179	1.720167	3.691406
Pt	-4.345520	2.563782	-0.975757	Pt	-4.462810	-0.481944	2.518638
Pt	-4.372213	0.579074	0.856518	Pt	-1.916034	3.481208	2.095059
Pt	-0.456667	0.921011	4.322545	Pt	-0.543456	4.461969	-0.113185
Pt	3.033625	-2.945111	-1.365520	Pt	3.215217	-4.014201	0.204075
Pt	2.094221	3.886153	0.835038	Pt	-2.155555	-4.673989	-0.017703
Pt	-0.987709	-2.936231	-3.184994	Pt	-4.454864	-0.544293	-0.193407
Pt	-3.033627	2.945110	1.365522	Pt	3.390606	2.652117	-1.299114
Pt	2.941985	-0.926500	-3.198049	Pt	-1.036385	-3.739127	2.268196
Pt	-3.610960	-2.546213	-2.624192	Pt	0.544047	-4.461622	0.098559
Pt	1.751461	1.479420	-3.863797	Pt	4.448349	0.494971	-2.535691
Pt	4.086110	-0.009023	1.848781	Pt	1.015380	3.691180	-2.264948
Pt	-0.231058	-2.523808	0.498368	Pt	1.620156	-2.022090	0.101593
Pt	1.995454	-3.895183	1.015357	Pt	3.820560	-1.761698	1.584751
Pt	3.992994	2.042104	-0.013265	Pt	0.190582	-0.057532	-4.443694
Pt	-2.941988	0.926500	3.198048	Pt	1.911576	-3.473157	-2.112587
Pt	-0.378510	0.724203	-2.450232	Pt	0.069146	-1.313658	2.234020
Pt	1.614597	-3.180360	-3.584045	Pt	-0.261056	1.395876	2.169588
Pt	-2.184113	1.288638	-0.490344	Pt	-3.206049	4.016354	-0.228257
Pt	-0.150666	3.318792	-3.012854	Pt	-2.221138	-1.586550	3.570583
Pt	3.610958	2.546216	2.624196	Pt	-0.518004	2.768671	4.307961
Pt	2.184114	-1.288636	0.490344	Pt	-0.134959	2.565106	-4.362444
Pt	0.456664	-0.921014	-4.322545	Pt	2.237736	0.249701	-1.276821
Pt	-1.814850	-1.279806	-1.319007	Pt	1.721458	-3.400333	2.382076
Pt	0.753169	-1.441030	4.874915	Pt	-0.837554	-3.810881	-2.226109
Pt	0.231063	2.523810	-0.498366	Pt	-3.935256	1.817320	1.179160
Pt	-2.245017	-0.564465	-3.850517	Pt	1.080632	2.352039	-0.004829
Pt	0.459795	5.021326	-0.991721	Pt	-1.612847	2.021150	-0.116054
Pt	-4.086110	0.009021	-1.848781	Pt	-3.397329	-2.648402	1.286698
Pt	-2.618471	2.056700	-3.004657	Pt	-2.556722	1.172154	3.507198
Pt	-4.164206	-1.430173	2.650022	Pt	4.227280	0.585617	2.877485
Pt	0.378515	-0.724200	2.450230	Pt	0.841400	3.819955	2.208925
Pt	0.150663	-3.318791	3.012854	Pt	0.259389	-1.380504	-2.174179

Pt	-1.995454	3.895180	-1.015358	Pt	-1.901062	-1.708343	-3.699363
Pt	-2.092981	-0.718745	1.331992	Pt	0.515682	-2.745639	-4.319510
Pt	-2.374690	-3.313216	1.870243	Pt	-0.195517	0.082609	4.489383
Pt	0.604939	-4.187192	-1.357453	Pt	-1.689763	3.358857	-2.376655
Pt	4.345521	-2.563785	0.975755	Pt	4.454943	0.550261	0.174514
Pt	-3.992995	-2.042103	0.013266	Pt	0.137239	-2.607679	4.434713
Pt	4.164206	1.430172	-2.650025	Pt	-2.199517	1.042027	-3.723193
Pt	-2.094221	-3.886150	-0.835035	Pt	-3.273853	-2.690070	-1.491678
Pt	2.374690	3.313215	-1.870247	Pt	-2.120402	-0.285689	-1.456786
Pt	2.092986	0.718743	-1.331989	Pt	-4.214995	-0.569306	-2.893435
Pt	-0.753170	1.441030	-4.874915	Pt	2.148193	4.674114	-0.007157
Pt	2.245017	0.564465	3.850522	Pt	-1.086236	-2.354565	-0.010164
Ni	0.789897	-1.555904	-1.753397	Pt	2.551560	-1.161347	-3.515496
Ni	-0.789900	1.555905	1.753397	Ni	-0.066104	1.256577	-2.137078
Ni	0.000001	0.000002	-0.000001	Ni	-0.000209	0.004324	-0.007420

Coordinates for Pt54Ni1				Coordinates for Pt55Ni0			
Atom	X	Y	Z	Atom	X	Y	Z
Pt	-0.706320	-3.155659	3.128474	Pt	-2.675251	-2.750384	1.198831
Pt	-3.603998	2.259865	1.465822	Pt	-1.222734	-0.004894	-2.474402
Pt	-4.123200	-1.686378	-0.632278	Pt	-2.227305	-1.213356	3.399707
Pt	1.441303	0.864171	-1.982059	Pt	-2.463220	1.121013	2.058444
Pt	3.603998	-2.259865	-1.465822	Pt	-2.790886	-0.379085	-0.297881
Pt	-2.857739	-1.713433	3.929923	Pt	-0.931021	-0.056060	-5.070697
Pt	3.365785	-2.702839	1.269084	Pt	2.052306	-0.505593	1.560329
Pt	3.686670	-0.263927	2.565781	Pt	1.744229	4.141105	-1.364855
Pt	5.075562	-0.831246	0.307448	Pt	-4.706691	-2.173689	-0.441271
Pt	-2.984807	-2.992543	1.542734	Pt	-1.388511	2.311856	-3.935861
Pt	1.062581	0.159911	2.366021	Pt	3.163458	-0.497909	3.920406
Pt	2.599372	2.275796	2.882436	Pt	-0.759390	-2.363354	-3.685013
Pt	1.841957	-2.113420	3.519243	Pt	1.496053	-5.089684	-0.687767
Pt	-0.385436	-0.716747	4.425170	Pt	1.027711	1.721616	-4.958891
Pt	-2.559863	0.419239	-0.155062	Pt	1.348873	3.737740	3.228177
Pt	-5.075562	0.831246	-0.307448	Pt	-4.861428	0.076701	-1.852418
Pt	-1.759285	4.109358	0.512359	Pt	-4.335250	-0.758767	1.793980
Pt	1.491507	2.076239	0.466201	Pt	-3.001636	1.996293	-1.777653
Pt	1.759285	-4.109358	-0.512359	Pt	-1.374756	3.404216	2.963132
Pt	-0.519202	-3.946242	-2.098099	Pt	0.765773	1.812923	-2.354259
Pt	-3.365785	2.702839	-1.269084	Pt	3.185650	0.553879	-2.035435
Pt	0.981350	-1.801256	-1.595347	Pt	3.405921	-3.980709	0.877424
Pt	4.123200	1.686378	0.632278	Pt	0.157022	3.843746	0.813704
Pt	-0.747287	2.236513	-1.091914	Pt	-0.671800	-0.867853	1.320252
Pt	0.747287	-2.236513	1.091914	Pt	-0.617413	-4.617071	-2.210637
Pt	-2.957281	-4.116658	-0.924359	Pt	4.355689	-1.717417	1.866835
Pt	2.984807	2.992543	-1.542734	Pt	-4.491191	1.509182	0.371828
Pt	-1.841957	2.113420	-3.519243	Pt	1.508353	1.418461	4.682511
Pt	-2.599371	-2.275796	-2.882436	Pt	1.405767	-2.883923	-2.182033
Pt	0.082672	1.995938	4.031602	Pt	4.248974	0.563204	0.432867
Pt	-0.757414	-4.389217	0.636807	Pt	1.084201	-2.818087	0.549688
Pt	0.706320	3.155659	-3.128474	Pt	1.256310	-5.076978	1.937013
Pt	-1.491507	-2.076239	-0.466201	Pt	1.892474	1.818898	0.102721
Pt	2.957281	4.116658	0.924359	Pt	1.247199	-0.577793	-3.628128
Pt	-4.072106	-0.452820	1.859390	Pt	-3.210641	-1.871619	-2.632034
Pt	-1.945769	3.571436	3.163171	Pt	-0.189641	3.272062	5.239480
Pt	0.519202	3.946242	2.098099	Pt	0.628909	4.047323	-3.784511
Pt	-3.686670	0.263927	-2.565781	Pt	-0.481983	-3.196519	2.720861
Pt	-0.981350	1.801256	1.595347	Pt	-1.062272	-2.338596	-1.011014
Pt	-1.481682	4.434441	-2.164989	Pt	2.851269	4.042195	1.073472

Pt	4.072106	0.452821	-1.859390	Pt	-3.010427	-4.075648	-1.128678
Pt	-0.082672	-1.995938	-4.031602	Pt	-0.834033	1.491552	-0.159248
Pt	-2.465606	0.953699	3.640833	Pt	2.937196	2.836070	-3.397128
Pt	-1.441303	-0.864171	1.982059	Pt	-3.321331	0.445999	-3.964058
Pt	1.481682	-4.434441	2.164989	Pt	-0.960988	3.769650	-1.647385
Pt	0.757414	4.389217	-0.636807	Pt	2.224045	-2.836908	3.010814
Pt	0.385436	0.716747	-4.425170	Pt	0.969083	-0.524486	-0.942053
Pt	2.465606	-0.953699	-3.640833	Pt	-0.908866	-4.663796	0.438334
Pt	1.945769	-3.571436	-3.163171	Pt	3.094260	1.808682	2.545678
Pt	2.559863	-0.419240	0.155062	Pt	-2.541280	3.352871	0.536383
Pt	-2.106831	-0.317063	-4.691221	Pt	3.344183	-1.751766	-0.589653
Pt	2.857739	1.713434	-3.929923	Pt	0.323220	1.473443	2.314927
Pt	-1.062581	-0.159911	-2.366020	Pt	4.042159	2.842375	-0.992440
Pt	2.106831	0.317063	4.691221	Pt	0.483933	-0.910532	3.794944
Ni	-0.000000	0.000000	0.000000	Pt	-1.213315	1.056384	4.435380