

SUPPLEMENTARY INFORMATION

Nickel Adipate Coordination Polymers with Isomeric Dipyriddyamide Ligands:

Topological Disorder and Divergent Magnetic Properties

Charmaine L. White, Robert L. LaDuca^{†*}

[†]Lyman Briggs College and Department of Chemistry,

Michigan State University, East Lansing, MI 48825 USA

Fig. S1. Stacking of coordination polymer slabs in **1**.

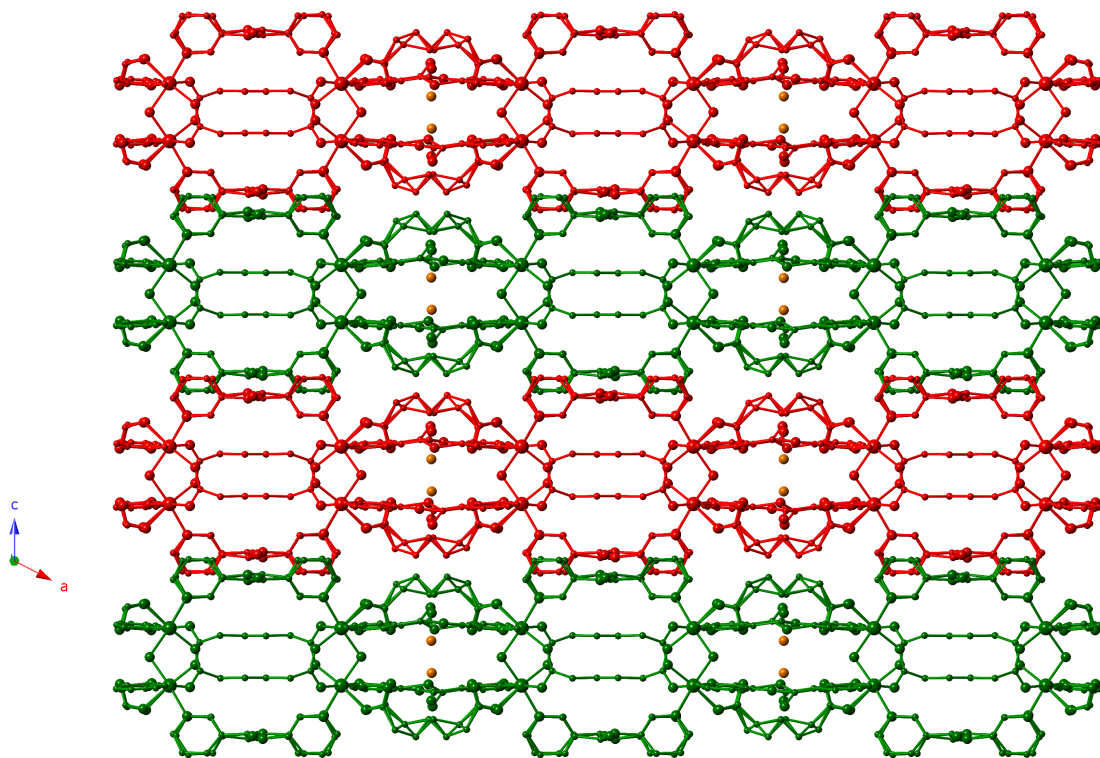


Fig. S2. Curie-Weiss plot for 1.

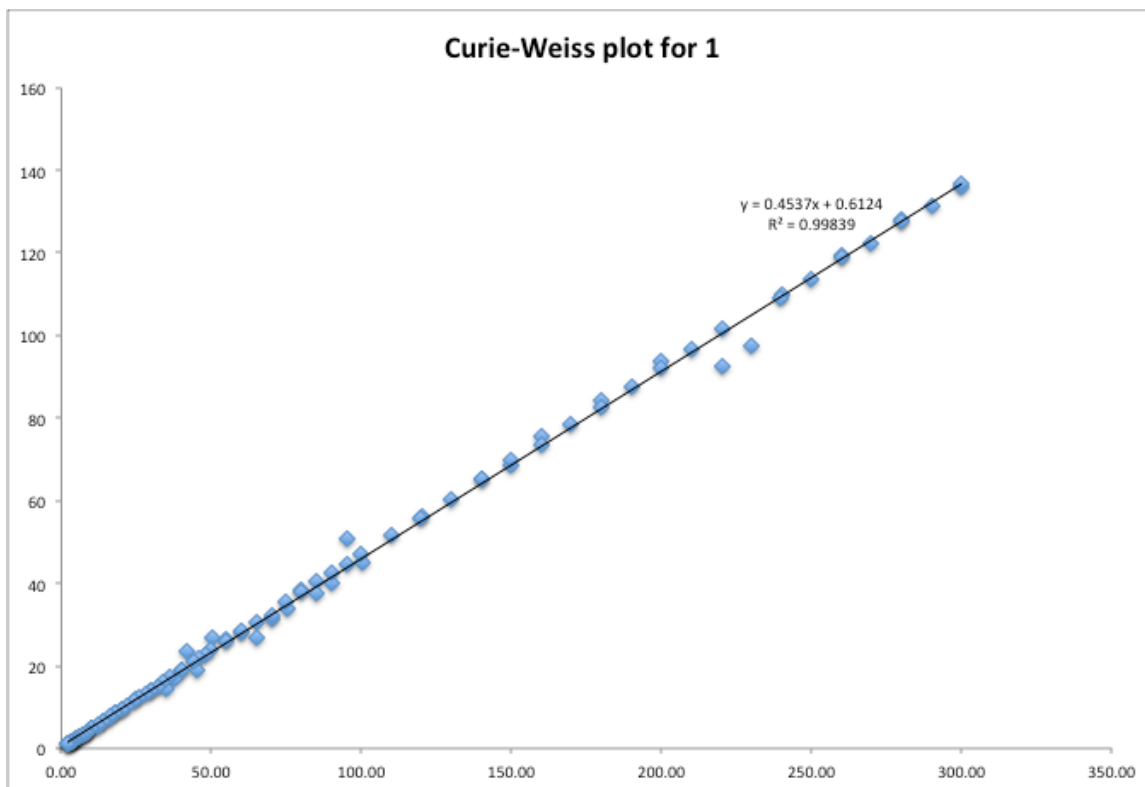


Fig. S3. Curie-Weiss plot for 2.

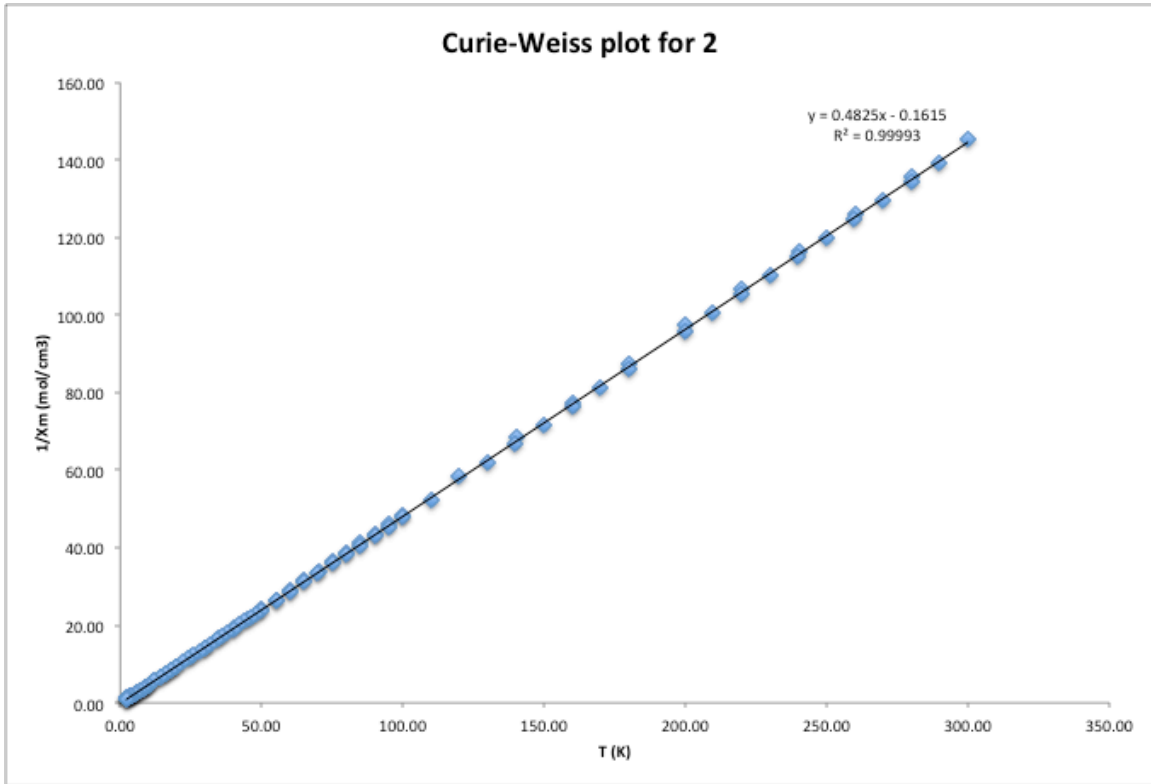


Fig. S4. TGA trace for **1**.

Sample: Ni adipia 3 pna
Size: 7.7850 mg
Method: LaDuca

TGA

File: C:\TA\Data\TGA\CuDPELW.011_Ren060716114
Operator: LaDuca
Run Date: 07-Jun-2016 10:43
Instrument: TGA Q50 V20.13 Build 39

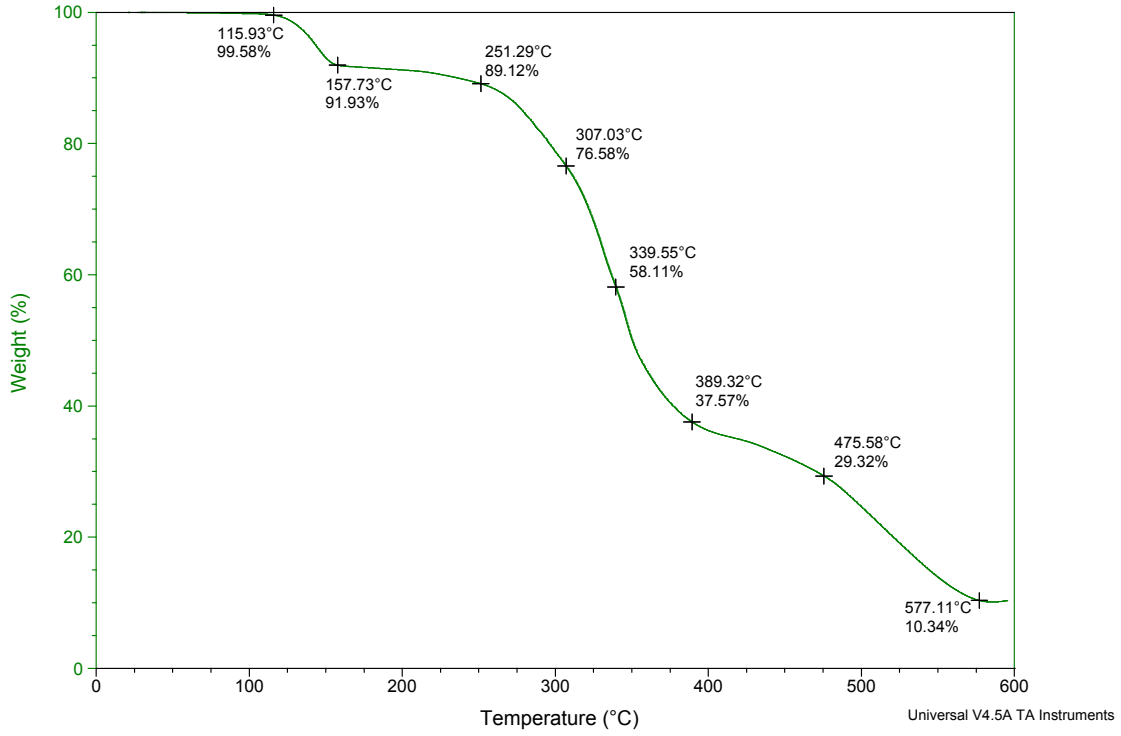


Fig. S5. TGA trace for **2**.

Sample: Ni adi 3 pina
Size: 3.8640 mg
Method: LaDuca

TGA

File: C:\TA\Data\TGA\CuDPELW.012_Ren06071612!
Operator: LaDuca
Run Date: 07-Jun-2016 11:52
Instrument: TGA Q50 V20.13 Build 39

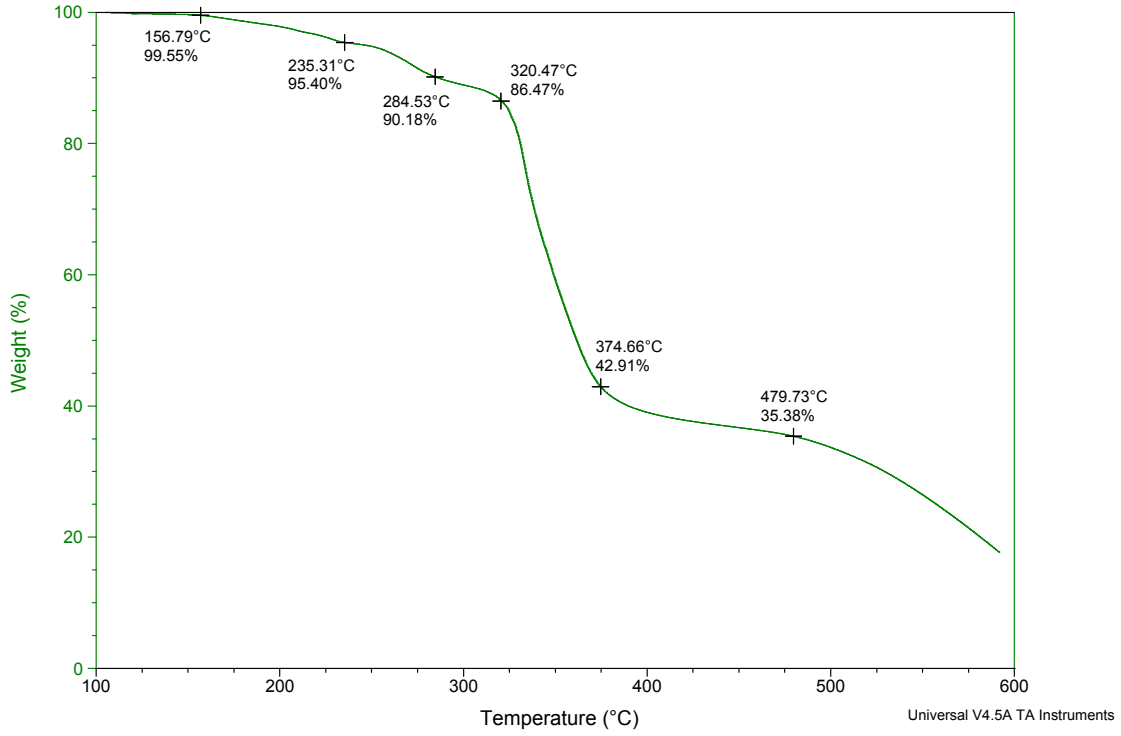


Table S1. Hydrogen bonding parameters for **1** and **2**.

$D-H\cdots A$	$d(H\cdots A)$	$d(D\cdots A)$	$\angle DHA$	symmetry transformation for A
1				
N2A–H2A \cdots O1WA	1.99	2.562(14)	121.5	
O1WA–H1WA \cdots O10B	1.99	2.78(4)	151.4	$-x + 1, -y + 2, -z + 1$
O1WA–H1WB \cdots O2A	1.59	2.438(13)	165.6	$-x + 1, -y + 1, -z + 1$
O1–H1A \cdots O8B	2.59(8)	2.95(4)	114(6)	
O1–H1A \cdots O9B	1.82(7)	2.47(3)	158(7)	
O1–H1B \cdots O10B	1.74(8)	2.65(3)	162(7)	$-x + 1, -y + 2, -z + 1$
2				
O11–H11 \cdots O6	1.84(4)	2.587(4)	159(4)	
N2–H2 \cdots O2W	1.99	2.816(4)	156.9	$-x + 1, -y + 1, -z$
N5–H5 \cdots O6	1.95	2.782(4)	156.9	$-x + 2, -y + 1, -z$
O2W–H2WA \cdots O1W	1.91	2.771(5)	169.8	$x - 1, y, z - 1$
O2W–H2WB \cdots O4	1.94	2.801(4)	171.7	$-x + 1, -y + 1, -z$
O1W–H1WA \cdots O7	2.47	3.007(12)	120.7	$-x + 2, -y, -z + 1$
O1W–H1WB \cdots O1	1.93	2.796(4)	170.7	$x + 1, y, z$