$coordinates

| | | | |
|---|---|---|---|
| Sn | -0.24071237460780 | 0.79378778871632 | 9.46494118374457 |
| Sn | 0.54055374298443 | 3.69567991796823 | 4.68406144371325 |
| Sn | 3.17210813266564 | 0.47747910878100 | -4.23710007581453 |
| Ag | -4.42181319460555 | 5.77970443469445 | -3.15061511337480 |
| Ag | -8.50877949221014 | 2.59221187534934 | -1.76572021608305 |
| Ag | -5.40457160216016 | 1.37180405010744 | -6.25122090197162 |
| Ag | -1.31290201622568 | -1.17179845493074 | -0.88549928726447 |
| Ag | 0.45801063812554 | 4.21003634610790 | -0.84553759471911 |
| Ag | -2.21699844032664 | -4.91782097166608 | 3.10011304250973 |
| Sn | -1.19059761482835 | -2.32406014828332 | -6.35346025184500 |
| Sn | 1.95656261053788 | -2.92490161596354 | 5.83081056407428 |
| Sn | -4.39517280134543 | -0.66074013178196 | 6.03001210157178 |
| Sn | -0.46262635465707 | 4.10527615638583 | -7.02604963728344 |
| Ag | 0.08536317150111 | 8.63913960899542 | -3.98048293465929 |
| Ag | -4.32196081071298 | 3.14698953018481 | 1.99630047258263 |
| Sn | -4.33461476644527 | -5.78709075995606 | -2.58367266030421 |
| Ag | -6.59088374710486 | -1.95576735898242 | 1.11448598874545 |
| Sn | -9.17653029626649 | -2.49072322106884 | -3.69127699026755 |
| Ag | 3.46531913615052 | 0.01120033871270 | 1.60453956003957 |
| Sn | -6.24246681372772 | -3.87764617810711 | -8.35317318052578 |

$end

vibrational frequencies, intensities

| mode | au_amu | cm-1 | km/mol |
|---|---|---|---|
| 7 | 0.002890 | 14.9 | 0.15 |
| 8 | 0.003680 | 18.9 | 0.18 |
| 9 | 0.005308 | 27.3 | 0.21 |
| 10 | 0.005741 | 29.5 | 0.07 |
| 11 | 0.006188 | 31.8 | 0.04 |
| 12 | 0.006495 | 33.4 | 0.07 |
| 13 | 0.006624 | 34.0 | 0.01 |
| 14 | 0.006914 | 35.5 | 0.12 |
| 15 | 0.007285 | 37.5 | 0.06 |
| 16 | 0.007535 | 38.7 | 0.05 |
| 17 | 0.007736 | 39.8 | 0.09 |
| 18 | 0.008218 | 42.2 | 0.33 |
| 19 | 0.008880 | 45.6 | 0.04 |
| 20 | 0.008943 | 46.0 | 0.41 |
| 21 | 0.009345 | 48.0 | 0.02 |
| 22 | 0.009851 | 50.6 | 0.42 |
| 23 | 0.010408 | 53.5 | 0.08 |
| 24 | 0.010724 | 55.1 | 0.39 |
| 25 | 0.011281 | 58.0 | 0.12 |
| 26 | 0.011409 | 58.6 | 0.51 |
| 27 | 0.011944 | 61.4 | 0.03 |
| 28 | 0.012413 | 63.8 | 0.08 |
| 29 | 0.013121 | 67.4 | 0.01 |
| 30 | 0.013324 | 68.5 | 0.08 |
| 31 | 0.013764 | 70.8 | 0.24 |
| 32 | 0.014443 | 74.2 | 0.26 |
| 33 | 0.014719 | 75.7 | 0.05 |

| | | | |
|---|---|---|---|
| 34 | 0.015134 | 77.8 | 0.04 |
| 35 | 0.015616 | 80.3 | 0.04 |
| 36 | 0.016441 | 84.5 | 0.18 |
| 37 | 0.016878 | 86.8 | 0.06 |
| 38 | 0.017044 | 87.6 | 0.79 |
| 39 | 0.017708 | 91.0 | 0.14 |
| 40 | 0.018569 | 95.5 | 0.37 |
| 41 | 0.019029 | 97.8 | 0.39 |
| 42 | 0.019622 | 100.9 | 0.07 |
| 43 | 0.020570 | 105.7 | 0.02 |
| 44 | 0.020942 | 107.7 | 0.09 |
| 45 | 0.021265 | 109.3 | 0.05 |
| 46 | 0.022319 | 114.7 | 0.01 |
| 47 | 0.022398 | 115.1 | 0.18 |
| 48 | 0.022902 | 117.7 | 0.37 |
| 49 | 0.023216 | 119.3 | 0.04 |
| 50 | 0.023269 | 119.6 | 0.13 |
| 51 | 0.023508 | 120.8 | 0.28 |
| 52 | 0.024742 | 127.2 | 0.28 |
| 53 | 0.025029 | 128.7 | 0.33 |
| 54 | 0.025755 | 132.4 | 0.01 |
| 55 | 0.027122 | 139.4 | 0.26 |
| 56 | 0.027905 | 143.4 | 0.78 |
| 57 | 0.029018 | 149.2 | 0.65 |
| 58 | 0.029487 | 151.6 | 0.56 |
| 59 | 0.031417 | 161.5 | 2.08 |
| 60 | 0.032454 | 166.8 | 0.10 |

Frequencies (cm-1) and normal modes

| | 7: 14.9 | 8: 18.9 | 9: 27.3 | 10: 29.5 | 11: 31.8 | 12: 33.4 | 13: 34.0 | 14: 35.5 | 15: 37.5 |
|---|---|---|---|---|---|---|---|---|---|
| Sn x | -0.0913 | 0.1692 | 0.1958 | -0.0392 | 0.1128 | 0.0049 | -0.1953 | -0.0902 | 0.3660 |
| y | 0.2404 | -0.1715 | 0.1081 | 0.1175 | -0.2626 | 0.0592 | 0.0328 | -0.1337 | -0.0477 |
| z | 0.0387 | -0.0945 | -0.0848 | -0.0256 | 0.1534 | -0.0085 | 0.0482 | 0.0239 | -0.0097 |
| Sn x | -0.0205 | -0.0835 | 0.2215 | 0.1422 | 0.0448 | 0.0570 | 0.1928 | 0.1288 | -0.1048 |
| y | 0.0403 | -0.0046 | -0.1329 | -0.0060 | -0.0145 | -0.0922 | -0.1531 | 0.0998 | 0.0773 |
| z | -0.0633 | -0.0386 | -0.2001 | -0.0480 | 0.2468 | -0.1001 | -0.0072 | 0.1618 | -0.0038 |
| Sn x | 0.0183 | 0.1163 | 0.0233 | 0.1706 | -0.1069 | 0.0917 | -0.0873 | -0.0138 | 0.0283 |
| y | -0.0732 | 0.1174 | -0.0016 | 0.0746 | 0.2246 | 0.2372 | 0.1047 | -0.1215 | -0.2515 |
| z | -0.1043 | 0.0254 | -0.0191 | 0.0469 | -0.1307 | 0.0648 | -0.0117 | -0.0168 | 0.3823 |
| Ag x | -0.0368 | -0.0799 | -0.1352 | -0.0513 | 0.0846 | -0.1149 | 0.0332 | -0.0087 | -0.0460 |
| y | 0.0298 | 0.0541 | -0.0116 | -0.1290 | -0.1801 | 0.1625 | -0.1125 | -0.1304 | -0.0935 |
| z | 0.0455 | -0.0547 | 0.0440 | -0.0097 | -0.1744 | 0.0283 | -0.0535 | 0.2931 | -0.1448 |
| Ag x | -0.0012 | -0.0970 | -0.0744 | -0.1602 | 0.1292 | 0.0690 | 0.0788 | -0.0369 | 0.0102 |
| y | -0.0245 | 0.0584 | -0.1070 | 0.0302 | -0.0323 | 0.0810 | -0.0412 | -0.1595 | -0.0633 |
| z | 0.0664 | -0.0751 | -0.0613 | 0.0953 | 0.0051 | 0.2724 | 0.0053 | 0.2064 | -0.0517 |
| Ag x | -0.1234 | -0.0190 | 0.0776 | -0.1996 | -0.1993 | 0.0679 | -0.1670 | -0.0344 | -0.0598 |
| y | 0.1478 | 0.0167 | -0.0148 | -0.0831 | -0.0073 | 0.0406 | 0.0941 | -0.0317 | 0.0867 |
| z | -0.0697 | -0.0122 | -0.0180 | 0.0795 | -0.3752 | 0.1704 | -0.3274 | 0.1877 | -0.2496 |
| Ag x | 0.2474 | 0.3069 | -0.1289 | 0.2094 | 0.0459 | -0.0989 | -0.0771 | 0.0977 | -0.1292 |
| y | -0.4234 | -0.2299 | 0.0162 | -0.0084 | -0.0789 | -0.0736 | 0.1879 | 0.0609 | 0.0858 |
| z | 0.0507 | 0.3509 | 0.0393 | -0.0964 | -0.0678 | -0.0204 | 0.2552 | 0.0083 | 0.0312 |
| Ag x | -0.0368 | -0.1008 | 0.0079 | 0.1438 | -0.0417 | -0.2586 | 0.0994 | 0.2596 | -0.0543 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| y | -0.2434 | -0.0448 | -0.0498 | -0.0058 | -0.0397 | -0.0310 | 0.1172 | 0.1515 | 0.1345 |
| z | -0.1044 | -0.0799 | -0.0946 | -0.0401 | 0.1646 | -0.1267 | 0.0242 | 0.0415 | -0.0381 |
| Ag x | 0.0784 | -0.2419 | -0.2613 | -0.0276 | -0.1803 | -0.0697 | 0.2356 | -0.1368 | 0.0210 |
| y | 0.0265 | -0.2019 | 0.0866 | 0.0338 | 0.1493 | -0.0423 | -0.0664 | 0.0812 | 0.0583 |
| z | 0.3380 | 0.0861 | 0.1883 | -0.2012 | 0.1453 | 0.0645 | 0.0500 | -0.0063 | 0.0554 |
| Sn x | -0.1381 | 0.0429 | 0.0248 | 0.1004 | -0.0378 | 0.2084 | -0.1531 | -0.0365 | -0.0307 |
| y | 0.1584 | 0.0553 | -0.0446 | 0.3312 | 0.1039 | 0.0568 | 0.0104 | -0.1471 | 0.1397 |
| z | -0.0786 | 0.3287 | 0.0674 | -0.1621 | -0.0915 | 0.0380 | 0.3730 | 0.0270 | -0.0416 |
| Sn x | 0.0939 | -0.0281 | -0.0770 | -0.1857 | -0.0111 | -0.0677 | 0.1590 | -0.0851 | 0.1139 |
| y | 0.1494 | -0.1038 | -0.1222 | -0.2400 | -0.1008 | -0.0739 | 0.0246 | 0.0030 | -0.1892 |
| z | 0.2365 | -0.2824 | -0.0132 | 0.2232 | -0.0423 | 0.0609 | 0.2116 | -0.0746 | 0.0395 |
| Sn x | -0.0333 | 0.0387 | -0.0421 | 0.0533 | -0.0840 | -0.0604 | 0.0584 | -0.1025 | 0.1312 |
| y | 0.0769 | 0.0410 | 0.3084 | 0.0349 | 0.2043 | -0.0845 | -0.1710 | 0.1975 | 0.0250 |
| z | 0.0348 | -0.0574 | 0.0752 | -0.1104 | 0.1933 | 0.1574 | -0.1389 | -0.0816 | 0.1501 |
| Sn x | -0.0252 | -0.0226 | 0.0374 | -0.0563 | -0.1494 | -0.0684 | -0.0650 | -0.0955 | 0.2898 |
| y | 0.0286 | -0.0207 | 0.1592 | -0.0159 | 0.0563 | -0.1330 | 0.0091 | -0.2036 | -0.1597 |
| z | 0.0030 | -0.0243 | 0.1770 | -0.0408 | -0.1997 | -0.2411 | -0.0686 | 0.0370 | 0.0626 |
| Ag x | 0.0047 | -0.0526 | -0.2581 | -0.1795 | 0.0793 | -0.0381 | -0.1262 | -0.2009 | -0.2233 |
| y | -0.0523 | -0.0025 | 0.1969 | -0.0089 | -0.1317 | -0.1325 | 0.0589 | -0.0499 | 0.0719 |
| z | 0.1436 | -0.0507 | 0.2625 | -0.0201 | 0.0254 | -0.4265 | -0.1169 | -0.2660 | -0.1773 |
| Ag x | 0.0211 | -0.0618 | 0.0205 | 0.1339 | 0.0326 | -0.0193 | 0.1061 | 0.2126 | -0.0809 |
| y | -0.1101 | 0.0091 | 0.0894 | 0.0089 | 0.1357 | -0.0393 | 0.0223 | 0.1307 | -0.0780 |
| z | -0.0794 | -0.1231 | -0.0531 | -0.0844 | 0.1480 | 0.2053 | 0.0333 | 0.0242 | -0.0277 |
| Sn x | -0.0651 | -0.1390 | 0.0878 | 0.0403 | 0.0779 | 0.0031 | -0.1742 | -0.0005 | -0.0284 |
| y | -0.0992 | 0.0384 | -0.0618 | 0.1669 | -0.0060 | -0.0179 | 0.0477 | -0.0707 | 0.0551 |
| z | -0.2406 | 0.1140 | 0.0530 | -0.0628 | -0.0374 | -0.0806 | 0.1232 | -0.1000 | -0.1728 |
| Ag x | 0.1767 | -0.0464 | -0.0474 | 0.0220 | 0.0956 | -0.0121 | -0.0250 | 0.0887 | -0.0048 |
| y | -0.1666 | 0.0880 | 0.0709 | 0.0905 | 0.1060 | -0.0739 | -0.0176 | 0.0425 | -0.1046 |
| z | -0.0884 | -0.0800 | 0.0430 | -0.1146 | 0.0383 | 0.1041 | -0.0766 | -0.1286 | 0.0647 |
| Sn x | 0.0074 | -0.1239 | 0.1577 | -0.2108 | 0.1524 | 0.1817 | -0.0562 | 0.0407 | -0.0483 |
| y | 0.0653 | 0.0461 | -0.1320 | 0.0208 | 0.0188 | 0.1941 | 0.0819 | -0.1199 | 0.0388 |
| z | -0.0493 | -0.0589 | -0.0908 | 0.0504 | -0.0162 | -0.0510 | -0.1941 | -0.1334 | -0.0163 |
| Ag x | 0.0435 | 0.2667 | -0.0013 | 0.0199 | -0.0835 | -0.1231 | 0.0769 | 0.0544 | -0.1117 |
| y | -0.0110 | 0.2431 | -0.3640 | -0.2030 | 0.0672 | -0.1749 | -0.2155 | 0.1753 | 0.0828 |
| z | 0.0980 | 0.0411 | -0.1707 | 0.2698 | 0.0503 | -0.0589 | -0.0289 | 0.0831 | 0.2046 |
| Sn x | -0.1024 | 0.1500 | 0.1340 | 0.0703 | 0.0372 | 0.2196 | 0.0972 | -0.0271 | -0.0701 |
| y | 0.2017 | 0.0116 | 0.0027 | -0.2222 | -0.2129 | 0.1244 | -0.0127 | 0.2382 | 0.1400 |
| z | -0.1585 | 0.0857 | -0.1357 | 0.2453 | -0.0372 | -0.0425 | -0.1114 | -0.2660 | -0.0725 |

16: 38.7 17: 39.8 18: 42.2 19: 45.6 20: 46.0 21: 48.0 22: 50.6 23: 53.5 24: 55.1

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Sn x | 0.1807 | 0.1751 | 0.0081 | -0.1324 | 0.0817 | 0.2130 | -0.0480 | -0.1129 | -0.0154 |
| y | 0.0760 | 0.0486 | 0.1251 | -0.2336 | -0.0996 | 0.2002 | 0.1891 | -0.1099 | -0.1378 |
| z | 0.0124 | 0.0086 | -0.0384 | 0.1303 | 0.0735 | 0.0365 | 0.0114 | 0.1542 | 0.0114 |
| Sn x | -0.0087 | -0.1528 | 0.0716 | -0.0273 | 0.1592 | -0.0876 | 0.1812 | -0.0479 | -0.0100 |
| y | 0.0723 | -0.0536 | 0.0893 | -0.2347 | -0.0330 | 0.1367 | -0.0849 | -0.0768 | -0.0679 |
| z | 0.0398 | -0.0575 | -0.0109 | 0.0915 | 0.0948 | -0.0041 | -0.0455 | 0.0685 | 0.0149 |
| Sn x | 0.0976 | 0.0073 | 0.0308 | -0.0521 | -0.1547 | -0.0997 | -0.0980 | 0.2092 | 0.1544 |
| y | -0.0131 | 0.1886 | 0.0762 | 0.0598 | 0.1675 | 0.1254 | 0.0743 | 0.0487 | -0.1881 |
| z | 0.0136 | -0.0640 | 0.0338 | -0.0080 | 0.1656 | -0.2446 | 0.1565 | -0.1619 | -0.1894 |
| Ag x | -0.0206 | 0.1833 | 0.1625 | 0.0053 | -0.1381 | 0.0873 | 0.0131 | -0.1362 | -0.1135 |
| y | -0.2249 | -0.0818 | -0.2019 | -0.0085 | 0.2544 | -0.0231 | -0.0996 | -0.1998 | 0.2747 |
| z | 0.1950 | 0.2374 | -0.0395 | 0.1019 | -0.2859 | 0.1271 | 0.0492 | -0.3369 | 0.1664 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Ag x | -0.2941 | -0.1742 | 0.2492 | -0.1725 | 0.1340 | 0.0837 | 0.0503 | -0.0820 | 0.2119 |
| y | 0.1229 | -0.0824 | -0.1332 | 0.2224 | -0.1083 | -0.0366 | -0.1549 | -0.0842 | -0.2500 |
| z | -0.0417 | -0.2278 | 0.2182 | -0.2277 | -0.0083 | -0.1574 | -0.2416 | 0.1022 | -0.0822 |
| Ag x | 0.0217 | -0.0793 | 0.0487 | 0.2396 | 0.1119 | 0.2099 | 0.1131 | 0.0321 | 0.0560 |
| y | -0.0999 | 0.0446 | -0.1058 | -0.0135 | -0.1879 | 0.0037 | -0.0099 | -0.0916 | 0.1380 |
| z | 0.0299 | 0.0882 | -0.0260 | 0.0198 | 0.2057 | -0.0863 | -0.1332 | -0.0594 | -0.0156 |
| Ag x | -0.0477 | -0.0841 | -0.0478 | 0.1294 | 0.0122 | 0.1321 | 0.1905 | 0.0177 | 0.0932 |
| y | -0.0365 | 0.1499 | -0.0869 | -0.1438 | -0.0650 | -0.0858 | -0.0435 | 0.0918 | 0.1193 |
| z | -0.1422 | 0.0717 | -0.0318 | -0.0939 | -0.0472 | -0.0703 | 0.0719 | -0.0420 | -0.0539 |
| Ag x | -0.0653 | 0.2165 | 0.1168 | 0.0701 | -0.2015 | 0.0693 | -0.2082 | 0.0072 | -0.1053 |
| y | -0.1468 | 0.0737 | 0.1222 | 0.1610 | 0.1335 | 0.0226 | 0.0586 | -0.1939 | -0.1788 |
| z | 0.1616 | 0.1448 | 0.0402 | 0.0389 | 0.1398 | -0.0610 | 0.1793 | -0.1016 | -0.2466 |
| Ag x | 0.1201 | -0.0591 | -0.1885 | 0.0424 | 0.0881 | -0.0458 | -0.0869 | 0.0792 | 0.0020 |
| y | 0.2094 | 0.1325 | 0.0404 | 0.1398 | 0.1511 | -0.1110 | -0.0632 | 0.1187 | 0.3758 |
| z | -0.0436 | 0.1402 | 0.0631 | 0.2471 | 0.0523 | -0.1626 | -0.0699 | -0.1071 | 0.0316 |
| Sn x | 0.1322 | 0.0509 | 0.1107 | 0.0380 | 0.1086 | 0.0033 | 0.0518 | 0.1961 | -0.0722 |
| y | -0.0948 | 0.1471 | 0.0278 | -0.1024 | -0.1817 | -0.2952 | -0.0373 | -0.1076 | 0.0891 |
| z | -0.0094 | 0.0684 | -0.0429 | -0.1670 | -0.0260 | 0.0512 | -0.1156 | 0.0699 | -0.0151 |
| Sn x | 0.1894 | 0.0634 | -0.0931 | 0.1813 | 0.1424 | -0.1621 | -0.1333 | 0.0034 | 0.1440 |
| y | 0.1279 | -0.0282 | 0.2028 | 0.0194 | -0.1029 | -0.1910 | 0.1114 | 0.0675 | -0.0584 |
| z | -0.0170 | 0.0453 | -0.1604 | 0.0549 | 0.1407 | 0.1844 | -0.0173 | 0.0364 | 0.0615 |
| Sn x | 0.1160 | 0.0026 | -0.1204 | -0.1164 | 0.1112 | 0.1599 | -0.0156 | -0.0010 | -0.1526 |
| y | -0.0543 | 0.0962 | -0.0376 | -0.0007 | 0.1935 | -0.1454 | -0.1157 | 0.0286 | -0.0996 |
| z | 0.0495 | 0.0734 | 0.1223 | 0.0571 | -0.1338 | 0.1576 | 0.0973 | 0.0397 | 0.1231 |
| Sn x | 0.0010 | -0.1694 | 0.1056 | 0.0995 | -0.1325 | -0.1360 | 0.0968 | 0.0601 | 0.0233 |
| y | -0.1331 | -0.0017 | 0.1270 | 0.0619 | 0.0594 | 0.1763 | -0.0087 | -0.0169 | -0.0014 |
| z | 0.0559 | -0.1401 | 0.0040 | -0.0536 | 0.0353 | -0.0814 | -0.0552 | -0.1261 | 0.0277 |
| Ag x | -0.0740 | 0.3012 | -0.0555 | -0.3232 | 0.1588 | -0.0864 | -0.0319 | -0.1274 | 0.0215 |
| y | -0.2124 | -0.1688 | 0.1537 | 0.1581 | 0.0268 | 0.1467 | -0.0742 | -0.1273 | 0.0070 |
| z | 0.1715 | -0.1321 | 0.0641 | -0.2374 | 0.0257 | -0.0317 | -0.1028 | 0.1697 | -0.0791 |
| Ag x | -0.1809 | -0.1609 | 0.2121 | 0.0533 | 0.0532 | 0.0568 | -0.1284 | 0.0980 | 0.0312 |
| y | 0.0598 | -0.2287 | -0.3209 | -0.1840 | 0.0701 | -0.1628 | 0.0880 | -0.0455 | -0.0505 |
| z | 0.1840 | -0.2141 | 0.0890 | -0.1828 | -0.1494 | 0.0276 | 0.3331 | -0.1502 | 0.1895 |
| Sn x | -0.3022 | 0.0907 | -0.2051 | -0.0139 | -0.2229 | -0.1893 | 0.0804 | -0.0566 | 0.0102 |
| y | 0.0310 | 0.0660 | 0.0477 | 0.0319 | -0.0765 | -0.0302 | 0.1099 | 0.1647 | 0.1733 |
| z | -0.0300 | -0.0467 | -0.1080 | 0.0825 | -0.1159 | 0.1014 | -0.1088 | 0.0390 | 0.1631 |
| Ag x | -0.0065 | -0.1518 | -0.2140 | 0.0190 | 0.0214 | 0.0145 | 0.1016 | -0.1460 | -0.1475 |
| y | 0.1845 | -0.1750 | -0.2503 | 0.0457 | -0.0850 | 0.1333 | 0.1872 | 0.0817 | 0.0824 |
| z | -0.1527 | 0.0232 | 0.0275 | 0.0000 | -0.1491 | 0.0679 | -0.0722 | 0.2712 | -0.0787 |
| Sn x | -0.0801 | -0.1422 | -0.2697 | 0.0495 | -0.2910 | 0.0222 | -0.1750 | -0.0419 | -0.2186 |
| y | 0.2116 | -0.1953 | 0.1082 | 0.1860 | -0.0950 | -0.0086 | -0.2094 | -0.0462 | -0.1717 |
| z | -0.2652 | 0.0184 | -0.1006 | 0.0774 | -0.0938 | -0.0483 | 0.1298 | 0.1785 | -0.1473 |
| Ag x | 0.0065 | 0.0192 | 0.0511 | 0.0579 | -0.0267 | -0.2217 | 0.2825 | 0.0632 | 0.0276 |
| y | 0.0029 | -0.1410 | 0.1025 | -0.0657 | -0.0607 | 0.0587 | -0.1418 | 0.0169 | 0.0781 |
| z | -0.1050 | -0.0284 | -0.1896 | -0.0865 | 0.0929 | 0.3051 | -0.0991 | -0.0130 | 0.0602 |
| Sn x | 0.1898 | 0.0642 | 0.0423 | -0.1417 | -0.0054 | -0.0095 | -0.2222 | -0.0233 | 0.0634 |
| y | -0.0889 | 0.1871 | -0.1183 | -0.0847 | 0.0452 | 0.0832 | 0.2128 | 0.4607 | -0.1056 |
| z | -0.0944 | -0.0041 | 0.0959 | 0.1359 | -0.0229 | -0.1130 | 0.0289 | -0.0437 | 0.0533 |

25: 58.0 26: 58.6 27: 61.4 28: 63.8 29: 67.4 30: 68.5 31: 70.8 32: 74.2 33: 75.7

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Sn x | 0.0655 | 0.0357 | -0.0172 | 0.0905 | 0.0847 | 0.1152 | -0.0061 | -0.0164 | 0.0465 |
| y | 0.0156 | 0.1337 | -0.0534 | 0.0361 | 0.0342 | 0.0031 | -0.0336 | 0.0020 | 0.0473 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| z | -0.1485 | 0.0479 | 0.0335 | 0.1782 | 0.3136 | 0.2598 | 0.2446 | 0.0277 | -0.1619 |
| Sn x | -0.2679 | 0.1543 | -0.0788 | -0.2172 | -0.2219 | 0.0848 | 0.1050 | 0.1378 | -0.1714 |
| y | -0.1159 | -0.0483 | -0.0157 | -0.1839 | -0.1723 | 0.0393 | -0.1482 | -0.0269 | 0.1336 |
| z | -0.1839 | 0.0222 | 0.0290 | 0.0219 | 0.0702 | 0.1835 | 0.0293 | 0.0140 | 0.0142 |
| Sn x | -0.1109 | -0.1515 | 0.0451 | 0.2666 | -0.0803 | 0.0309 | -0.1011 | 0.0159 | -0.1214 |
| y | -0.0501 | -0.1190 | -0.0617 | -0.0020 | -0.1592 | -0.0904 | -0.0501 | 0.0026 | 0.0598 |
| z | -0.1128 | 0.0907 | 0.0116 | -0.1173 | -0.0687 | -0.2062 | 0.0436 | -0.0579 | 0.1249 |
| Ag x | 0.1113 | -0.1548 | 0.1877 | -0.0005 | -0.0950 | -0.1300 | 0.2298 | -0.0877 | -0.1154 |
| y | -0.1830 | 0.1416 | -0.1209 | 0.1448 | 0.0819 | 0.0723 | -0.0869 | -0.2150 | 0.1489 |
| z | -0.2111 | -0.2024 | -0.1803 | -0.1282 | 0.0266 | -0.1038 | -0.0042 | -0.0212 | -0.1364 |
| Ag x | 0.0294 | -0.1454 | -0.0472 | 0.0932 | 0.0580 | -0.0804 | -0.0596 | -0.4206 | 0.0874 |
| y | 0.0841 | 0.1874 | 0.0210 | 0.0607 | -0.2188 | 0.0749 | 0.1214 | -0.1449 | -0.0918 |
| z | 0.3238 | -0.0408 | -0.0690 | -0.0411 | 0.1609 | -0.1127 | -0.1194 | 0.2514 | 0.0330 |
| Ag x | 0.0491 | -0.2224 | -0.1637 | -0.1998 | 0.0121 | 0.2119 | -0.0114 | 0.0414 | 0.0980 |
| y | -0.1909 | -0.0703 | -0.1816 | -0.0018 | 0.0370 | -0.0537 | -0.0651 | 0.1669 | 0.1002 |
| z | 0.1787 | 0.0304 | 0.2597 | -0.0435 | 0.0333 | 0.1555 | 0.2376 | -0.0349 | 0.2144 |
| Ag x | 0.1859 | 0.0772 | -0.1058 | 0.1101 | 0.1343 | -0.1672 | -0.0378 | 0.1126 | 0.0431 |
| y | 0.2217 | 0.0760 | -0.2019 | 0.1028 | -0.0789 | 0.2829 | -0.0390 | -0.0089 | -0.1016 |
| z | 0.1210 | 0.0216 | 0.0420 | -0.1344 | 0.0179 | 0.1874 | 0.1218 | -0.0930 | -0.0054 |
| Ag x | 0.0388 | -0.0651 | 0.0885 | 0.0820 | 0.0572 | 0.0195 | -0.1131 | -0.2639 | 0.2173 |
| y | 0.0643 | 0.1002 | 0.0628 | 0.1324 | 0.0712 | -0.1061 | -0.1516 | 0.1543 | 0.0604 |
| z | -0.0368 | 0.0639 | -0.1549 | 0.0335 | 0.1043 | -0.0415 | -0.1696 | -0.0093 | 0.2310 |
| Ag x | -0.0111 | -0.1167 | -0.0141 | -0.0089 | 0.0387 | -0.1274 | 0.0704 | -0.0229 | 0.0593 |
| y | 0.1385 | 0.0601 | -0.1425 | 0.0988 | -0.2291 | -0.2093 | 0.2085 | 0.0589 | 0.1064 |
| z | 0.0996 | -0.0176 | 0.2518 | -0.1602 | -0.0669 | 0.1452 | -0.3239 | -0.0618 | -0.1267 |
| Sn x | -0.0487 | -0.0472 | 0.0291 | -0.0096 | -0.0497 | -0.0768 | -0.1761 | -0.1267 | -0.2180 |
| y | -0.1650 | -0.0618 | 0.1733 | -0.0205 | 0.0651 | 0.0618 | 0.1508 | 0.0025 | 0.2041 |
| z | -0.0187 | -0.1023 | -0.0677 | 0.2178 | -0.2330 | 0.0658 | 0.0990 | 0.1079 | 0.1043 |
| Sn x | 0.0672 | -0.0390 | 0.1430 | -0.1701 | -0.1435 | -0.1315 | -0.0900 | -0.0427 | 0.0523 |
| y | -0.1531 | 0.0506 | 0.0463 | 0.1031 | 0.1724 | 0.1204 | 0.0601 | -0.0319 | -0.0071 |
| z | 0.0685 | -0.0016 | 0.0269 | -0.0378 | 0.0141 | 0.0266 | 0.0487 | 0.0121 | -0.0785 |
| Sn x | -0.1750 | -0.0032 | 0.0250 | -0.0886 | 0.2127 | 0.1582 | 0.0886 | 0.0083 | -0.1533 |
| y | -0.0720 | -0.2010 | -0.2445 | 0.0017 | 0.1318 | -0.0251 | 0.1284 | 0.0432 | -0.0972 |
| z | 0.0827 | 0.1908 | 0.0399 | 0.2182 | 0.0138 | 0.0525 | 0.0678 | -0.0004 | 0.1139 |
| Sn x | 0.0122 | -0.1806 | 0.0113 | -0.0541 | 0.0548 | 0.0879 | 0.0838 | 0.3570 | 0.2326 |
| y | 0.1094 | -0.1115 | 0.0789 | -0.1572 | 0.0692 | 0.0358 | 0.1334 | 0.2330 | 0.0173 |
| z | -0.0774 | 0.1754 | 0.0150 | 0.2337 | 0.0589 | -0.2381 | -0.1633 | 0.0047 | -0.3398 |
| Ag x | 0.0364 | 0.1446 | 0.0745 | -0.0188 | 0.0228 | -0.1310 | -0.0282 | 0.3329 | -0.1646 |
| y | 0.1082 | -0.0454 | 0.2319 | 0.1415 | -0.0197 | -0.1424 | 0.1893 | 0.0235 | -0.2433 |
| z | 0.0523 | 0.0291 | -0.0885 | -0.0531 | -0.1537 | 0.0916 | -0.0765 | -0.1346 | 0.1394 |
| Ag x | -0.2836 | 0.2342 | 0.0812 | -0.0600 | -0.1522 | 0.1046 | -0.0732 | 0.0493 | 0.1086 |
| y | 0.0820 | -0.4126 | 0.1444 | -0.0677 | 0.1397 | -0.0789 | 0.0133 | -0.1515 | -0.0581 |
| z | 0.1072 | -0.0618 | 0.1172 | -0.0083 | -0.1554 | 0.0545 | 0.0754 | -0.0302 | -0.0810 |
| Sn x | 0.1327 | 0.1520 | -0.0334 | -0.1469 | -0.1041 | 0.1919 | -0.0834 | 0.0009 | -0.1263 |
| y | 0.1339 | 0.1182 | 0.0638 | -0.2589 | 0.3090 | 0.0674 | -0.2669 | -0.1048 | -0.1323 |
| z | -0.0018 | 0.0339 | -0.0075 | -0.0975 | 0.1113 | -0.1493 | -0.2065 | 0.2086 | 0.1030 |
| Ag x | 0.1095 | -0.1290 | 0.0173 | 0.3761 | -0.0260 | 0.1808 | -0.1842 | 0.1225 | 0.0376 |
| y | -0.0664 | 0.1671 | 0.3670 | 0.0041 | -0.0105 | -0.1010 | -0.0669 | 0.0073 | 0.2007 |
| z | -0.1445 | 0.0133 | -0.0390 | -0.1456 | 0.2178 | -0.2750 | 0.1285 | -0.1297 | 0.0022 |
| Sn x | 0.0047 | 0.1807 | -0.1036 | -0.0612 | 0.0045 | -0.1471 | 0.0939 | -0.0082 | 0.1041 |
| y | 0.1232 | 0.0046 | -0.2615 | -0.0176 | 0.0287 | 0.0731 | -0.0784 | -0.0698 | -0.1281 |
| z | -0.1013 | -0.1187 | 0.0216 | 0.1218 | -0.1854 | -0.1036 | -0.0017 | -0.0330 | -0.0289 |
| Ag x | 0.1926 | 0.2065 | -0.2809 | -0.0199 | 0.0778 | -0.1155 | 0.2403 | -0.1905 | 0.0174 |
| y | -0.0580 | 0.0749 | 0.0075 | -0.1270 | -0.1249 | 0.0385 | 0.0986 | 0.0460 | -0.1665 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| z | 0.1325 | 0.0433 | -0.1198 | -0.1803 | -0.1299 | -0.0347 | 0.0735 | -0.0654 | -0.0431 |
| Sn x | -0.1166 | 0.0617 | 0.1345 | 0.0536 | 0.1212 | -0.0898 | 0.0539 | -0.0142 | -0.0156 |
| y | -0.0173 | -0.0315 | 0.0956 | 0.0334 | -0.1434 | -0.0728 | -0.1066 | 0.0106 | -0.0547 |
| z | -0.1006 | -0.2230 | -0.1205 | 0.0821 | -0.1471 | 0.0457 | -0.1072 | 0.0296 | -0.0681 |

34: 77.8 35: 80.3 36: 84.5 37: 86.8 38: 87.6 39: 91.0 40: 95.5 41: 97.8 42: 100.9

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Sn x | -0.0389 | -0.0380 | 0.0432 | 0.0772 | 0.0322 | 0.0220 | -0.2121 | -0.0776 | -0.0091 |
| y | -0.0543 | -0.0734 | -0.0920 | -0.1135 | -0.0900 | -0.0822 | -0.0203 | -0.1557 | 0.0534 |
| z | -0.0636 | -0.1416 | 0.0670 | -0.0204 | -0.0218 | 0.0058 | -0.1058 | 0.1166 | -0.0238 |
| Sn x | 0.0288 | 0.2392 | -0.1096 | -0.1657 | 0.0360 | -0.1002 | -0.0245 | -0.0374 | 0.0069 |
| y | -0.1117 | 0.2183 | 0.0624 | 0.2596 | 0.2590 | 0.3475 | 0.2238 | 0.1920 | -0.0949 |
| z | -0.1229 | 0.0586 | 0.0188 | 0.0912 | 0.0999 | 0.1535 | 0.0550 | -0.0153 | -0.0183 |
| Sn x | -0.1441 | 0.1171 | -0.2306 | -0.0287 | -0.2276 | 0.1405 | -0.0165 | 0.0145 | -0.1445 |
| y | -0.0492 | -0.0232 | -0.0591 | 0.0800 | -0.3768 | 0.2125 | -0.2178 | 0.0533 | -0.0909 |
| z | 0.1869 | -0.1620 | 0.2536 | 0.0937 | -0.1107 | 0.0391 | -0.2132 | 0.2414 | 0.0584 |
| Ag x | -0.1151 | 0.1146 | 0.2844 | -0.0777 | -0.0952 | -0.0182 | 0.0525 | -0.0519 | -0.0363 |
| y | -0.0232 | -0.0380 | -0.0943 | -0.0446 | 0.0808 | 0.0223 | -0.0386 | 0.0316 | -0.2551 |
| z | 0.0994 | -0.1071 | 0.1217 | 0.0851 | -0.1768 | -0.0892 | 0.1031 | 0.0499 | -0.1860 |
| Ag x | -0.1636 | 0.0189 | 0.2043 | -0.0717 | -0.1874 | -0.0618 | 0.1009 | -0.1078 | 0.1078 |
| y | -0.1571 | 0.0598 | 0.0638 | -0.0175 | 0.1169 | 0.0016 | -0.0701 | -0.1093 | -0.2234 |
| z | -0.1147 | -0.3048 | 0.0911 | 0.0228 | -0.0030 | 0.0115 | 0.0526 | -0.1151 | -0.1735 |
| Ag x | 0.0544 | -0.0861 | -0.1554 | 0.1287 | -0.0274 | -0.0456 | 0.0598 | -0.0655 | 0.2522 |
| y | -0.0293 | -0.1231 | 0.1078 | -0.1537 | 0.1992 | -0.0374 | -0.0595 | -0.0187 | -0.0670 |
| z | -0.0284 | 0.2247 | 0.0430 | -0.0953 | -0.0947 | -0.0007 | 0.0127 | 0.0150 | 0.1160 |
| Ag x | -0.1653 | 0.1787 | -0.0353 | 0.0664 | 0.0647 | -0.1634 | 0.0240 | 0.2907 | -0.0228 |
| y | 0.1766 | 0.0307 | 0.0330 | -0.1208 | -0.1076 | 0.1455 | 0.2120 | 0.0650 | -0.0623 |
| z | -0.0101 | -0.0350 | -0.0638 | 0.3125 | 0.0717 | -0.2093 | 0.1220 | -0.0362 | 0.0225 |
| Ag x | 0.0901 | -0.1733 | -0.2712 | -0.0186 | 0.1826 | 0.0399 | -0.2940 | 0.0750 | 0.0514 |
| y | -0.0118 | 0.0444 | -0.2220 | -0.1169 | 0.0350 | -0.3174 | 0.0390 | 0.1720 | -0.1181 |
| z | -0.2501 | 0.1276 | -0.1023 | -0.1456 | 0.0693 | -0.0118 | 0.1602 | -0.3195 | 0.0163 |
| Ag x | 0.1543 | 0.2003 | 0.0464 | 0.2457 | 0.0423 | -0.1119 | -0.2112 | -0.2545 | -0.1272 |
| y | -0.1606 | -0.1466 | 0.0037 | 0.0578 | 0.0374 | -0.1067 | 0.0850 | 0.1915 | 0.2195 |
| z | 0.0554 | -0.0251 | -0.0645 | -0.2128 | -0.0500 | 0.1377 | 0.0838 | 0.0373 | -0.0804 |
| Sn x | 0.1022 | -0.1305 | 0.0553 | -0.0124 | 0.1627 | -0.0379 | -0.0062 | 0.0032 | -0.1141 |
| y | 0.0346 | 0.1147 | -0.0851 | -0.0514 | -0.1135 | 0.0344 | 0.0626 | -0.0517 | 0.2960 |
| z | -0.1032 | 0.0168 | -0.0313 | 0.1570 | -0.0780 | -0.0929 | 0.0350 | 0.0180 | 0.0279 |
| Sn x | -0.0650 | -0.0490 | -0.0751 | 0.0020 | -0.0159 | 0.0033 | 0.1276 | -0.0171 | -0.0239 |
| y | -0.0194 | -0.0856 | 0.1101 | 0.0655 | 0.0386 | 0.0584 | -0.1074 | 0.1252 | 0.0264 |
| z | -0.0351 | -0.0440 | -0.0592 | -0.0475 | -0.0185 | -0.0031 | 0.0009 | -0.0425 | -0.0656 |
| Sn x | -0.2684 | -0.2127 | 0.0322 | -0.1814 | -0.0789 | 0.0489 | 0.1586 | 0.2521 | 0.0931 |
| y | 0.0540 | 0.1932 | 0.1577 | 0.0992 | -0.0122 | -0.0877 | -0.0521 | -0.1810 | -0.1272 |
| z | 0.2225 | 0.0777 | -0.0586 | 0.1186 | 0.0213 | -0.0265 | -0.1145 | -0.0848 | -0.0739 |
| Sn x | -0.1068 | 0.0506 | -0.0703 | -0.0822 | -0.1077 | 0.0692 | 0.0004 | -0.0474 | -0.2850 |
| y | 0.1281 | -0.1223 | -0.0413 | 0.0688 | 0.1861 | 0.1982 | 0.0501 | -0.1594 | 0.0893 |
| z | -0.1153 | 0.0524 | -0.1688 | 0.2046 | -0.0921 | 0.1895 | 0.0047 | -0.2276 | 0.2808 |
| Ag x | 0.1649 | -0.0677 | -0.1340 | 0.1315 | -0.0276 | 0.0190 | -0.0122 | 0.1290 | 0.0006 |
| y | -0.0304 | 0.0454 | 0.0857 | 0.0218 | 0.0664 | 0.0664 | 0.0292 | 0.1196 | -0.1201 |
| z | 0.0758 | 0.0086 | 0.0820 | -0.1274 | -0.0828 | -0.2746 | -0.0416 | 0.2254 | -0.1473 |
| Ag x | 0.1402 | -0.0817 | 0.0489 | 0.2023 | -0.0660 | 0.0133 | -0.0498 | -0.0005 | 0.0199 |
| y | 0.0305 | -0.0865 | -0.2388 | -0.0193 | 0.0542 | -0.0048 | -0.1726 | 0.0776 | 0.0372 |
| z | -0.0241 | 0.1241 | -0.1716 | -0.0340 | 0.2205 | 0.0302 | -0.1761 | 0.1170 | -0.0195 |
| Sn x | -0.3335 | -0.0967 | 0.1124 | 0.1791 | 0.0343 | -0.1201 | -0.2171 | -0.0996 | 0.0136 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| y | 0.0738 | 0.2431 | 0.1145 | 0.1689 | -0.1096 | -0.1385 | 0.0575 | 0.0592 | -0.0229 |
| z | -0.0530 | 0.2148 | 0.2849 | -0.2625 | -0.0060 | 0.1743 | -0.3384 | 0.0444 | 0.1876 |
| Ag x | 0.4016 | 0.1048 | 0.2030 | -0.0304 | -0.0757 | 0.0287 | 0.1659 | 0.0445 | 0.1175 |
| y | 0.0107 | -0.2957 | 0.1029 | 0.1106 | -0.1796 | -0.0464 | 0.2033 | -0.2163 | -0.0845 |
| z | 0.1153 | 0.1664 | -0.2456 | 0.0206 | -0.0321 | -0.0391 | 0.1632 | 0.0877 | -0.0781 |
| Sn x | -0.0054 | 0.0162 | -0.0618 | -0.0349 | -0.0844 | 0.0249 | 0.1244 | 0.1492 | 0.1657 |
| y | 0.0427 | 0.0384 | -0.0372 | 0.0815 | -0.0419 | -0.0474 | -0.0075 | 0.0655 | 0.2831 |
| z | 0.0537 | -0.0472 | -0.0252 | -0.0304 | 0.0718 | -0.0308 | 0.2164 | -0.0077 | -0.0138 |
| Ag x | 0.1720 | -0.1227 | -0.0153 | -0.1450 | 0.0576 | 0.3943 | 0.0521 | -0.0870 | -0.0917 |
| y | 0.1525 | -0.0665 | -0.1305 | -0.2856 | -0.1953 | -0.2281 | -0.1205 | -0.2171 | 0.0419 |
| z | 0.0917 | -0.0271 | -0.0478 | -0.1175 | -0.0019 | 0.1377 | -0.0381 | -0.0608 | -0.0142 |
| Sn x | 0.1319 | 0.0219 | 0.1367 | -0.1642 | 0.3755 | -0.1403 | 0.1723 | -0.1133 | 0.0384 |
| y | -0.0582 | 0.0460 | 0.1453 | -0.1170 | 0.1579 | -0.0135 | -0.0911 | -0.0388 | 0.1902 |
| z | 0.0202 | -0.1704 | 0.0598 | -0.0266 | 0.2102 | -0.1158 | 0.0388 | -0.0432 | 0.1595 |

43: 105.7 44: 107.7 45: 109.3 46: 114.7 47: 115.1 48: 117.7 49: 119.3 50: 119.6 51: 120.8

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|---|---|---|---|---|---|---|---|---|---|
| Sn x | -0.0628 | -0.0886 | 0.0719 | -0.0195 | 0.1035 | 0.1110 | -0.1058 | 0.2246 | 0.0087 |
| y | -0.0480 | -0.1374 | -0.0190 | 0.0226 | 0.0362 | -0.0274 | 0.2308 | -0.0416 | -0.2007 |
| z | -0.0137 | 0.0692 | 0.0325 | 0.0429 | 0.0366 | -0.0020 | -0.0023 | -0.1453 | 0.0244 |
| Sn x | 0.0360 | 0.2032 | -0.3263 | 0.1163 | 0.2161 | 0.0329 | -0.2027 | 0.0250 | 0.0462 |
| y | -0.0905 | 0.1129 | -0.0103 | 0.0843 | 0.0775 | -0.0204 | -0.0160 | -0.1849 | 0.1983 |
| z | -0.1018 | -0.0377 | -0.0450 | 0.0648 | 0.1282 | -0.0161 | 0.1780 | 0.0173 | -0.1232 |
| Sn x | -0.0342 | 0.1406 | 0.0906 | 0.1096 | 0.1463 | -0.0376 | 0.1501 | 0.2216 | -0.1250 |
| y | -0.0253 | -0.0240 | -0.1360 | -0.1303 | -0.1546 | 0.1994 | -0.0668 | -0.1784 | 0.1159 |
| z | 0.1155 | 0.0385 | -0.0899 | 0.0151 | 0.0449 | -0.1273 | 0.0141 | 0.0191 | -0.1928 |
| Ag x | -0.1955 | -0.0101 | -0.1327 | -0.1385 | 0.0654 | 0.0577 | 0.0161 | 0.0235 | -0.0745 |
| y | 0.0961 | 0.0260 | -0.1479 | 0.0226 | 0.0565 | -0.0264 | 0.1198 | 0.0615 | -0.0071 |
| z | 0.1281 | -0.1377 | 0.1120 | 0.1513 | 0.1304 | -0.0521 | -0.0254 | 0.0009 | 0.0697 |
| Ag x | 0.1554 | -0.0022 | 0.1010 | 0.1652 | -0.0160 | 0.0246 | -0.1333 | -0.0555 | 0.0654 |
| y | 0.3055 | -0.1571 | 0.1013 | -0.2386 | 0.1694 | -0.0172 | -0.0612 | -0.1277 | -0.0056 |
| z | 0.0477 | 0.1447 | -0.0665 | -0.1624 | 0.1998 | -0.0156 | -0.0094 | -0.0106 | 0.0022 |
| Ag x | -0.0706 | 0.2006 | 0.0961 | -0.4441 | 0.2312 | -0.1245 | -0.0421 | -0.0797 | -0.0250 |
| y | -0.3519 | 0.0575 | -0.1733 | -0.2270 | -0.2150 | 0.1834 | -0.0280 | -0.0162 | -0.1031 |
| z | -0.1566 | -0.0369 | -0.0711 | 0.1042 | -0.2380 | 0.0776 | -0.0435 | 0.0191 | -0.0181 |
| Ag x | 0.0681 | -0.0721 | 0.0510 | -0.0123 | 0.0110 | 0.0525 | -0.2672 | -0.0372 | -0.2474 |
| y | 0.0054 | -0.0390 | 0.0992 | -0.0139 | -0.0010 | 0.1659 | -0.2173 | -0.0291 | -0.2101 |
| z | 0.0682 | 0.0544 | 0.0045 | 0.0762 | 0.1096 | 0.5239 | 0.1881 | -0.0272 | 0.0790 |
| Ag x | 0.2069 | 0.2059 | -0.2326 | 0.0049 | -0.1069 | -0.0116 | 0.0328 | -0.0864 | 0.0141 |
| y | -0.0607 | 0.0734 | 0.3167 | 0.0558 | 0.0302 | -0.0493 | -0.0482 | -0.0404 | 0.1764 |
| z | -0.0496 | -0.0853 | -0.0582 | 0.0042 | 0.0489 | -0.0532 | 0.1195 | 0.2373 | -0.0730 |
| Ag x | -0.0371 | 0.0959 | 0.1119 | -0.0202 | -0.0416 | 0.0187 | -0.0410 | 0.2312 | 0.2508 |
| y | 0.1102 | -0.1372 | -0.1470 | -0.0652 | 0.0459 | 0.0650 | 0.1479 | 0.1271 | 0.2761 |
| z | -0.0299 | -0.0228 | 0.0653 | -0.0873 | -0.0770 | -0.0586 | -0.1331 | 0.2093 | 0.1856 |
| Sn x | 0.0343 | 0.0240 | -0.0046 | 0.1514 | 0.0520 | 0.1801 | 0.1235 | 0.0717 | -0.0423 |
| y | 0.0534 | 0.1267 | 0.2253 | -0.1147 | 0.2281 | -0.0504 | -0.0272 | -0.0480 | 0.0296 |
| z | 0.0233 | -0.0518 | -0.1338 | -0.0153 | -0.0945 | -0.4419 | -0.0375 | 0.1197 | -0.0387 |
| Sn x | -0.0181 | 0.0309 | -0.0054 | 0.0960 | -0.0226 | -0.0248 | 0.0424 | -0.3270 | -0.4980 |
| y | 0.0579 | 0.0379 | -0.0248 | -0.0550 | 0.0334 | 0.0747 | -0.3806 | 0.2549 | -0.1195 |
| z | -0.0650 | 0.0179 | 0.0715 | 0.0562 | 0.0365 | 0.0357 | 0.0699 | -0.1782 | 0.0555 |
| Sn x | 0.1209 | 0.0195 | 0.0026 | -0.0719 | -0.1699 | -0.0771 | 0.0992 | -0.0352 | 0.1439 |
| y | 0.1260 | 0.2275 | 0.2127 | -0.0407 | -0.2685 | -0.0447 | 0.1117 | -0.0930 | -0.1709 |
| z | -0.1495 | 0.0022 | -0.1261 | 0.1229 | 0.1682 | -0.0328 | -0.0808 | -0.2206 | -0.0222 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Sn x | 0.1258 | -0.2239 | -0.0918 | 0.1313 | -0.1895 | 0.1505 | -0.0592 | -0.1077 | 0.1790 |
| y | 0.3303 | -0.1365 | -0.0226 | 0.2942 | -0.0231 | -0.0945 | -0.0170 | 0.1473 | -0.1463 |
| z | 0.0467 | -0.0503 | -0.0654 | -0.1522 | -0.1370 | 0.1633 | -0.1515 | -0.1809 | 0.0712 |
| Ag x | -0.0195 | 0.0595 | 0.0821 | 0.0313 | 0.0161 | -0.0465 | 0.0278 | 0.0142 | 0.0303 |
| y | -0.2403 | 0.1337 | -0.0625 | -0.0271 | 0.0924 | -0.0855 | 0.1844 | 0.1419 | -0.0287 |
| z | -0.0974 | 0.0460 | 0.1014 | -0.0228 | 0.0379 | -0.0008 | -0.0047 | -0.0499 | 0.0535 |
| Ag x | -0.1479 | -0.4485 | 0.3040 | -0.1521 | -0.1043 | 0.0327 | 0.1323 | 0.0688 | -0.0917 |
| y | -0.2169 | -0.3844 | -0.0354 | 0.0254 | 0.2162 | -0.0007 | -0.0626 | -0.0139 | -0.0114 |
| z | 0.1762 | 0.1193 | 0.2213 | -0.1633 | -0.3677 | -0.0270 | 0.1787 | 0.0323 | -0.0693 |
| Sn x | -0.1062 | -0.0503 | -0.0424 | 0.1273 | -0.0561 | -0.2934 | -0.0566 | -0.1023 | 0.0893 |
| y | 0.0820 | -0.0766 | -0.2945 | -0.1952 | -0.1010 | -0.1039 | 0.1949 | 0.1380 | -0.0055 |
| z | 0.1018 | 0.0251 | 0.1349 | 0.0520 | 0.2074 | 0.0700 | 0.1383 | -0.0798 | 0.0571 |
| Ag x | 0.0959 | -0.0472 | -0.2137 | -0.0514 | -0.0013 | -0.0574 | 0.1597 | -0.0912 | 0.0951 |
| y | -0.0608 | 0.3037 | 0.0570 | 0.1073 | -0.1181 | -0.0398 | -0.1370 | 0.0279 | 0.0591 |
| z | -0.0577 | -0.0988 | -0.0740 | -0.0279 | -0.0684 | -0.1501 | -0.1019 | -0.0762 | 0.0209 |
| Sn x | 0.0039 | 0.1048 | 0.0236 | 0.0538 | -0.0495 | 0.2269 | 0.1353 | 0.2538 | -0.0899 |
| y | -0.1579 | 0.0119 | 0.0498 | 0.3562 | -0.1236 | -0.1080 | -0.0430 | -0.0127 | 0.0704 |
| z | 0.1991 | -0.0674 | -0.0048 | -0.1197 | 0.0444 | 0.0229 | 0.0056 | 0.0421 | 0.0186 |
| Ag x | -0.1910 | 0.0104 | 0.1361 | 0.0040 | -0.0163 | -0.1505 | 0.1414 | -0.0644 | 0.1906 |
| y | 0.0541 | -0.0133 | -0.1084 | 0.0159 | -0.0040 | 0.0007 | 0.1251 | -0.0693 | 0.0453 |
| z | 0.0143 | 0.0238 | 0.0054 | -0.0580 | -0.0666 | -0.0005 | -0.2704 | 0.2581 | -0.0683 |
| Sn x | 0.0292 | -0.1529 | -0.0070 | -0.1100 | -0.0660 | -0.0737 | -0.1516 | -0.1513 | 0.0902 |
| y | 0.0149 | -0.0121 | 0.1150 | 0.1075 | 0.0360 | -0.0116 | -0.0087 | -0.0402 | 0.0468 |
| z | -0.1977 | 0.0479 | -0.0029 | 0.1104 | -0.1571 | 0.0959 | -0.0366 | 0.0412 | -0.0236 |

52: 127.2 53: 128.7 54: 132.4 55: 139.4 56: 143.4 57: 149.2 58: 151.6 59: 161.5 60: 166.8

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Sn x | 0.0699 | -0.2139 | 0.0660 | 0.1791 | -0.1946 | -0.0107 | 0.1326 | 0.1792 | -0.0152 |
| y | 0.0010 | 0.0711 | 0.1666 | -0.3077 | -0.1256 | 0.1078 | 0.0805 | 0.1216 | -0.0143 |
| z | 0.1030 | -0.0903 | -0.0113 | -0.1378 | 0.1235 | 0.2345 | -0.2385 | 0.5314 | -0.0562 |
| Sn x | 0.0319 | -0.0387 | -0.0031 | -0.0385 | -0.0255 | 0.0093 | 0.0021 | 0.0397 | 0.0018 |
| y | 0.1404 | -0.0469 | -0.0357 | 0.0402 | 0.1053 | 0.0535 | -0.1284 | 0.1335 | -0.0109 |
| z | 0.0465 | -0.0055 | 0.2283 | -0.2725 | -0.3735 | -0.0194 | 0.4360 | -0.2565 | 0.0156 |
| Sn x | 0.1236 | 0.1445 | -0.2991 | 0.0238 | -0.0661 | 0.0293 | -0.0494 | 0.0220 | 0.3548 |
| y | -0.0857 | -0.0432 | 0.0819 | -0.0332 | -0.0574 | -0.0029 | -0.0026 | 0.0089 | 0.1215 |
| z | 0.2008 | 0.1498 | 0.0379 | 0.0676 | -0.0606 | -0.0055 | -0.0554 | 0.0152 | 0.1671 |
| Ag x | 0.0061 | 0.1255 | 0.0141 | 0.1946 | 0.2454 | 0.3958 | 0.2426 | -0.0311 | 0.0231 |
| y | -0.1718 | 0.0459 | 0.1672 | 0.1879 | 0.2026 | 0.2398 | 0.1410 | -0.0086 | 0.0310 |
| z | -0.0601 | -0.0703 | 0.0431 | -0.0511 | -0.0053 | -0.0709 | -0.0264 | 0.0103 | 0.0132 |
| Ag x | 0.1440 | -0.0742 | -0.1050 | -0.1599 | -0.1309 | -0.1787 | -0.0852 | 0.0049 | -0.0239 |
| y | 0.1418 | 0.0108 | -0.1379 | -0.1528 | 0.0197 | -0.2763 | 0.0326 | 0.0558 | -0.0046 |
| z | -0.0237 | 0.0072 | 0.0557 | 0.0084 | 0.0730 | 0.0321 | 0.0482 | 0.0045 | 0.0246 |
| Ag x | 0.0076 | 0.0239 | 0.0115 | 0.0054 | -0.0274 | 0.0094 | -0.0137 | 0.0017 | 0.0337 |
| y | 0.2490 | 0.1244 | -0.2947 | -0.0493 | -0.2174 | -0.0292 | -0.1010 | -0.0251 | -0.1464 |
| z | 0.1095 | -0.0055 | -0.1176 | -0.0462 | -0.1021 | -0.0359 | -0.0608 | -0.0144 | -0.0702 |
| Ag x | 0.1508 | 0.1743 | 0.2747 | 0.0710 | 0.0051 | -0.0252 | -0.0583 | -0.0116 | -0.0481 |
| y | 0.0804 | 0.1831 | 0.2319 | 0.0562 | 0.0011 | -0.0344 | -0.0599 | 0.0008 | -0.0161 |
| z | -0.1431 | 0.1697 | -0.1224 | 0.0255 | -0.0631 | -0.0149 | -0.0127 | 0.0309 | 0.1106 |
| Ag x | -0.0105 | 0.0079 | 0.1035 | -0.0003 | -0.0461 | -0.0657 | -0.0471 | 0.0021 | 0.0056 |
| y | 0.0630 | -0.1174 | -0.2817 | -0.1080 | 0.0160 | 0.1854 | 0.2115 | -0.0499 | 0.0246 |
| z | -0.1323 | 0.0920 | -0.0137 | 0.1874 | 0.1117 | -0.1663 | -0.3141 | 0.0953 | 0.0150 |
| Ag x | 0.1326 | 0.1754 | 0.1594 | -0.1528 | 0.0312 | 0.0638 | -0.0672 | -0.0300 | -0.0029 |
| y | -0.0327 | 0.1240 | -0.0638 | -0.0370 | -0.0297 | -0.0062 | 0.0335 | 0.0542 | 0.0035 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| z | 0.1508 | 0.1717 | 0.1828 | -0.0860 | 0.0053 | 0.0326 | -0.0296 | 0.0138 | -0.0181 |
| Sn x | -0.0052 | 0.0722 | -0.0671 | 0.0100 | 0.0611 | -0.0131 | 0.0395 | -0.0444 | -0.6422 |
| y | -0.0867 | -0.0274 | 0.1077 | 0.0172 | 0.0839 | -0.0339 | 0.0400 | -0.0085 | -0.2819 |
| z | 0.1029 | -0.1584 | 0.0116 | -0.0010 | 0.0856 | 0.0016 | 0.0310 | -0.0293 | -0.2934 |
| Sn x | -0.1867 | -0.1608 | -0.1201 | -0.0720 | 0.0189 | 0.0533 | -0.0202 | 0.1000 | -0.0045 |
| y | -0.2398 | -0.1530 | -0.1942 | 0.1731 | -0.0328 | -0.1087 | 0.1008 | -0.1399 | 0.0201 |
| z | 0.1989 | -0.2628 | -0.0239 | 0.5421 | -0.0705 | -0.1984 | 0.0811 | -0.1620 | 0.0136 |
| Sn x | -0.0514 | 0.2261 | -0.0501 | -0.0666 | 0.1698 | -0.0775 | -0.0760 | -0.3747 | 0.0262 |
| y | -0.0652 | 0.0166 | -0.0002 | -0.0040 | 0.0422 | -0.0104 | -0.0184 | -0.1289 | 0.0097 |
| z | -0.0165 | 0.0725 | -0.0857 | -0.1545 | 0.2807 | -0.0214 | -0.2180 | -0.4435 | 0.0379 |
| Sn x | -0.1706 | -0.1439 | 0.1441 | -0.0410 | 0.0175 | -0.0207 | 0.0189 | 0.0022 | -0.0619 |
| y | 0.2581 | 0.1196 | -0.1771 | 0.0414 | 0.0630 | 0.1118 | 0.0656 | -0.0085 | 0.0701 |
| z | 0.0621 | -0.0231 | -0.0212 | -0.0091 | 0.0745 | 0.1005 | 0.0875 | -0.0249 | -0.0767 |
| Ag x | -0.0539 | -0.0624 | 0.0332 | -0.0799 | -0.0933 | -0.1645 | -0.0978 | 0.0136 | -0.0003 |
| y | -0.2534 | -0.0416 | 0.1866 | -0.0244 | -0.1195 | -0.2973 | -0.2436 | 0.0396 | -0.0194 |
| z | -0.0149 | -0.0330 | -0.0200 | -0.0214 | -0.0078 | 0.0479 | 0.0537 | -0.0097 | 0.0127 |
| Ag x | -0.0688 | 0.0519 | -0.0442 | 0.0989 | 0.1194 | 0.0019 | -0.0998 | 0.0100 | 0.0015 |
| y | 0.0410 | -0.0292 | -0.0273 | -0.0472 | 0.0825 | 0.0106 | -0.0863 | -0.0698 | -0.0007 |
| z | -0.0677 | 0.0291 | 0.0277 | 0.0906 | -0.0053 | 0.0345 | 0.0388 | 0.0511 | -0.0035 |
| Sn x | -0.1118 | 0.1151 | -0.0620 | 0.0650 | -0.0866 | 0.0135 | 0.0209 | 0.0273 | 0.0097 |
| y | 0.0906 | -0.3249 | -0.0712 | -0.0824 | 0.0665 | 0.0234 | -0.0291 | -0.0290 | 0.0600 |
| z | -0.1213 | 0.0722 | -0.0670 | 0.0286 | -0.0350 | 0.0290 | -0.0122 | -0.0097 | -0.0657 |
| Ag x | -0.1330 | 0.0883 | -0.1911 | 0.0499 | -0.0246 | -0.1251 | 0.1702 | 0.1638 | -0.0086 |
| y | -0.0088 | 0.0839 | 0.0543 | 0.0454 | -0.0541 | -0.0069 | 0.0386 | 0.0547 | -0.0077 |
| z | -0.0778 | 0.2970 | -0.0694 | 0.1163 | -0.0577 | -0.2137 | 0.2831 | 0.2636 | -0.0264 |
| Sn x | 0.1652 | -0.3003 | 0.1049 | -0.0790 | 0.1976 | -0.0138 | 0.0021 | -0.0338 | 0.0383 |
| y | -0.1726 | 0.0731 | 0.0633 | 0.1403 | -0.1963 | 0.2016 | -0.0923 | -0.0396 | -0.0120 |
| z | -0.0258 | -0.1805 | 0.0442 | 0.0699 | -0.3529 | 0.3728 | -0.3010 | -0.1614 | -0.0187 |
| Ag x | 0.0583 | -0.1368 | -0.0636 | -0.0136 | -0.0184 | 0.0286 | 0.0662 | -0.0237 | 0.0007 |
| y | 0.1369 | 0.0047 | 0.0897 | 0.1786 | 0.0071 | -0.0667 | -0.0630 | 0.0053 | 0.0038 |
| z | -0.3825 | -0.0612 | -0.2267 | -0.2378 | 0.0457 | 0.0792 | 0.0278 | 0.0300 | -0.0034 |
| Sn x | -0.0871 | -0.0566 | 0.1027 | 0.0064 | -0.1496 | 0.0871 | -0.0800 | -0.0124 | 0.3115 |
| y | -0.0740 | -0.0554 | 0.1311 | -0.0319 | 0.1387 | -0.0741 | 0.0760 | 0.0357 | 0.1635 |
| z | 0.0612 | -0.1427 | 0.1355 | -0.1196 | 0.3333 | -0.2311 | 0.1819 | 0.0876 | 0.2247 |