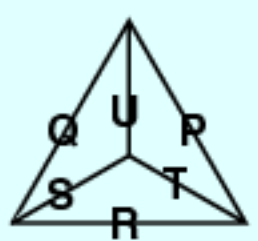
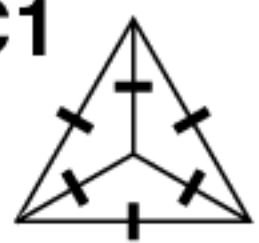







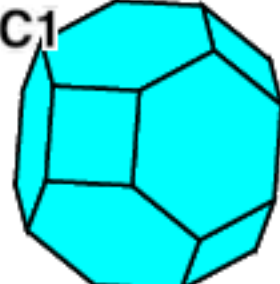
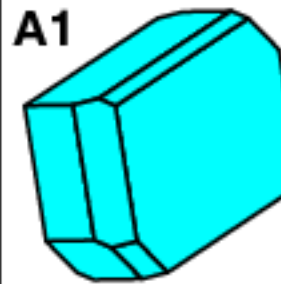



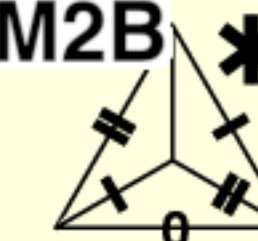
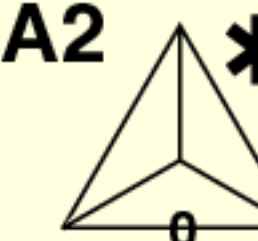

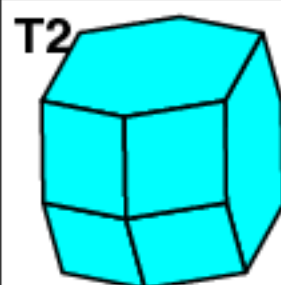
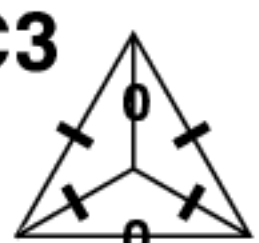



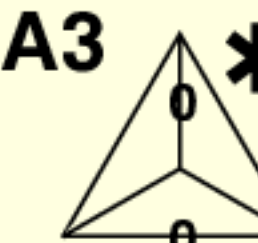
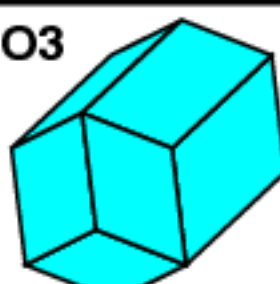
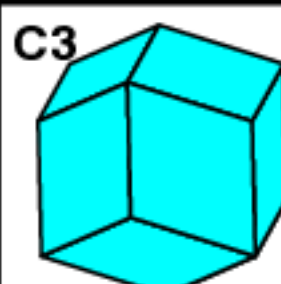



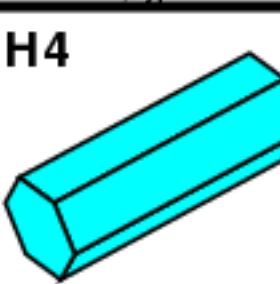
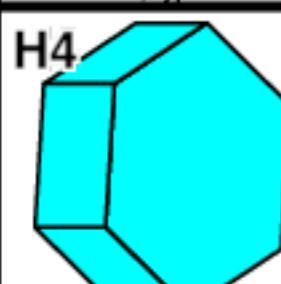



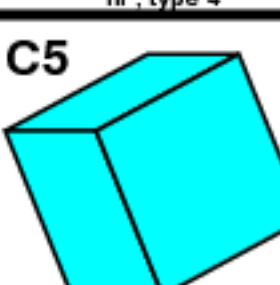
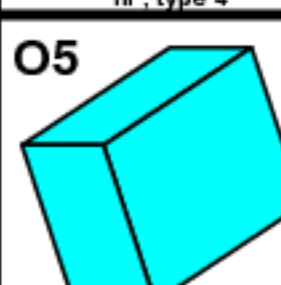


The Bravais Lattice Types

Lattice System

Federov Type

		C cubic	T tetragonal	H-R hexagonal rhombohedral	O_A orthorhombic	O_B orthorhombic	M_A monoclinic	M_B monoclinic	A anorthic	Dirichlet cells also known as Dirichlet domains Voronoi domains Federov parallelohedra Wigner-Seitz cell	
1 truncated octahedron	C1  cl (rrr rrr)	T1  tl (rrr rrs)	R1  hR (rrr sss)	O1A  oF (rrs rr \bar{t})	O1B  ol (rst rst)	M1A  mC (rrs ttu)	M1B  mC (rst rsu)	A1  aP (rst uvw)	C1  cl, type 1	A1  aP, type 1	
2 elongated dodecahedron			T2  tl (rr0 rrs)		O2  ol (rs0 sr \bar{t})		M2A  mC (rs0 stu)	M2B *  mC (rs0 rst)	A2 *  aP (rs0 tuv)	M2A  mC, type 2	T2  tl, type 2
3 truncated octahedron	C3  cF (rr0 rr0)		R3  hR (rr0 sr0)	O3 *  ol (rs0 rs0)		M3 *  mC (rs0 ts0)		A3 *  aP (rs0 tu0)	O3  ol, type 3	C3  cF, type 3	
4 hexagonal prism			H4  hP (00r rrs)	O4  oS (00r ss \bar{t})		M4  mP (00r stu)			H4  hP, type 4	H4  hP, type 4	
5 cuboid	C5  cP (000 rrr)	T5  tP (000 rrs)		O5  oP (000 rst)					C5  cP, type 5	O5  oP, type 5	

***Not a full-dimensional Bravais type**

O3 is a 2-D manifold between O2 and O1B

M3 is a 3-D manifold between M2A and M1B

M2B is a 3-D manifold between M1A and M1B

[modified after Delone, Galiulin, and Shtogrin, 1975]