When is a crystal graph not crystallographic?

Olaf Delgado-Friedrichs

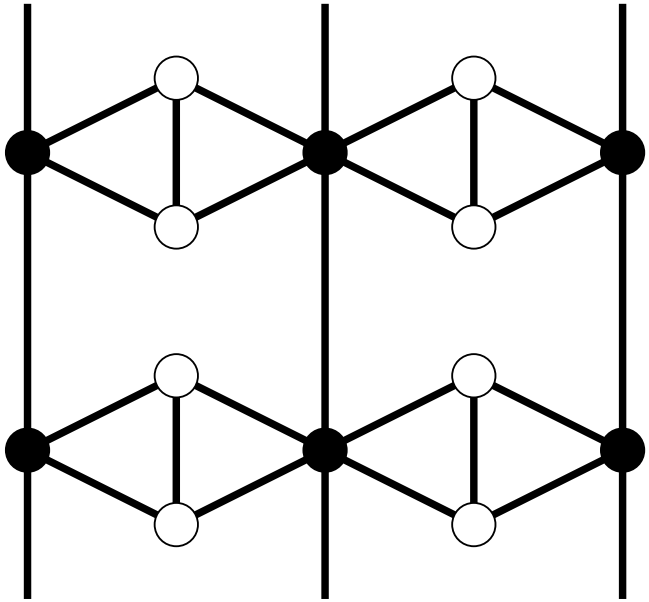
Order!Order? — Canberra 4 Dec 2019

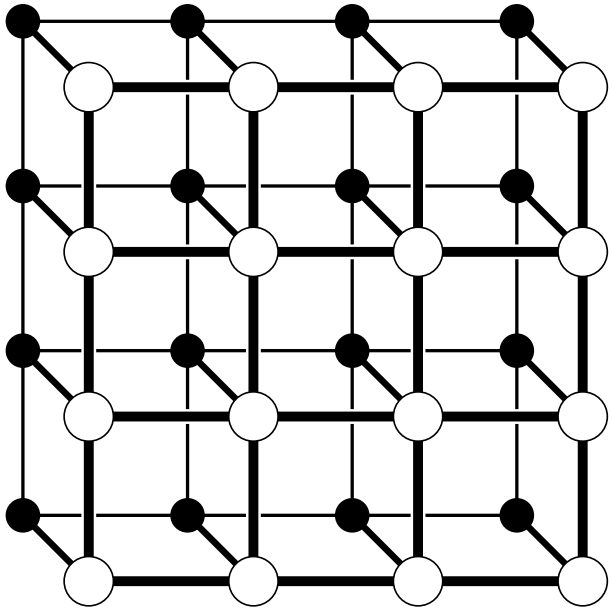
Too much symmetry

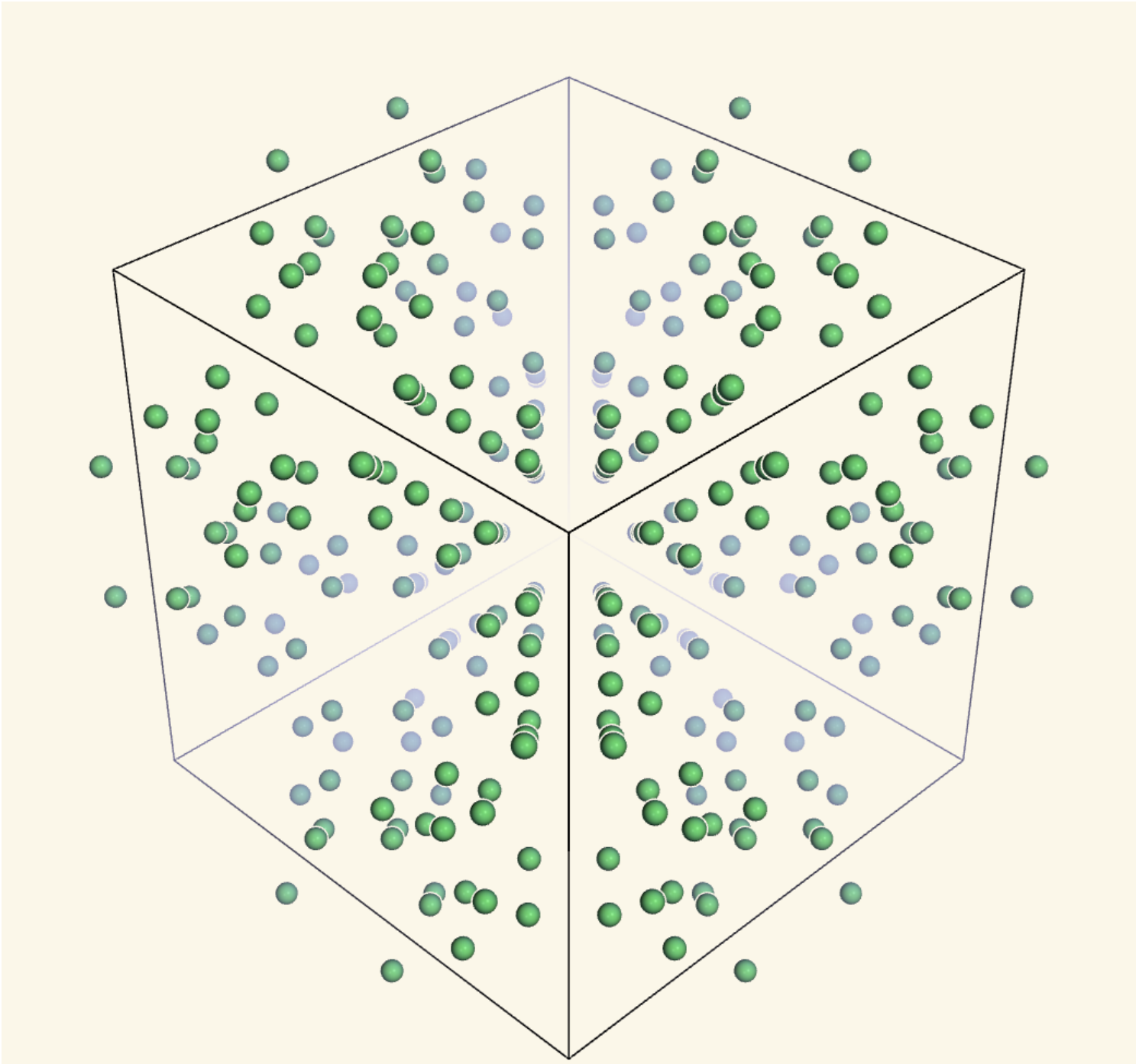
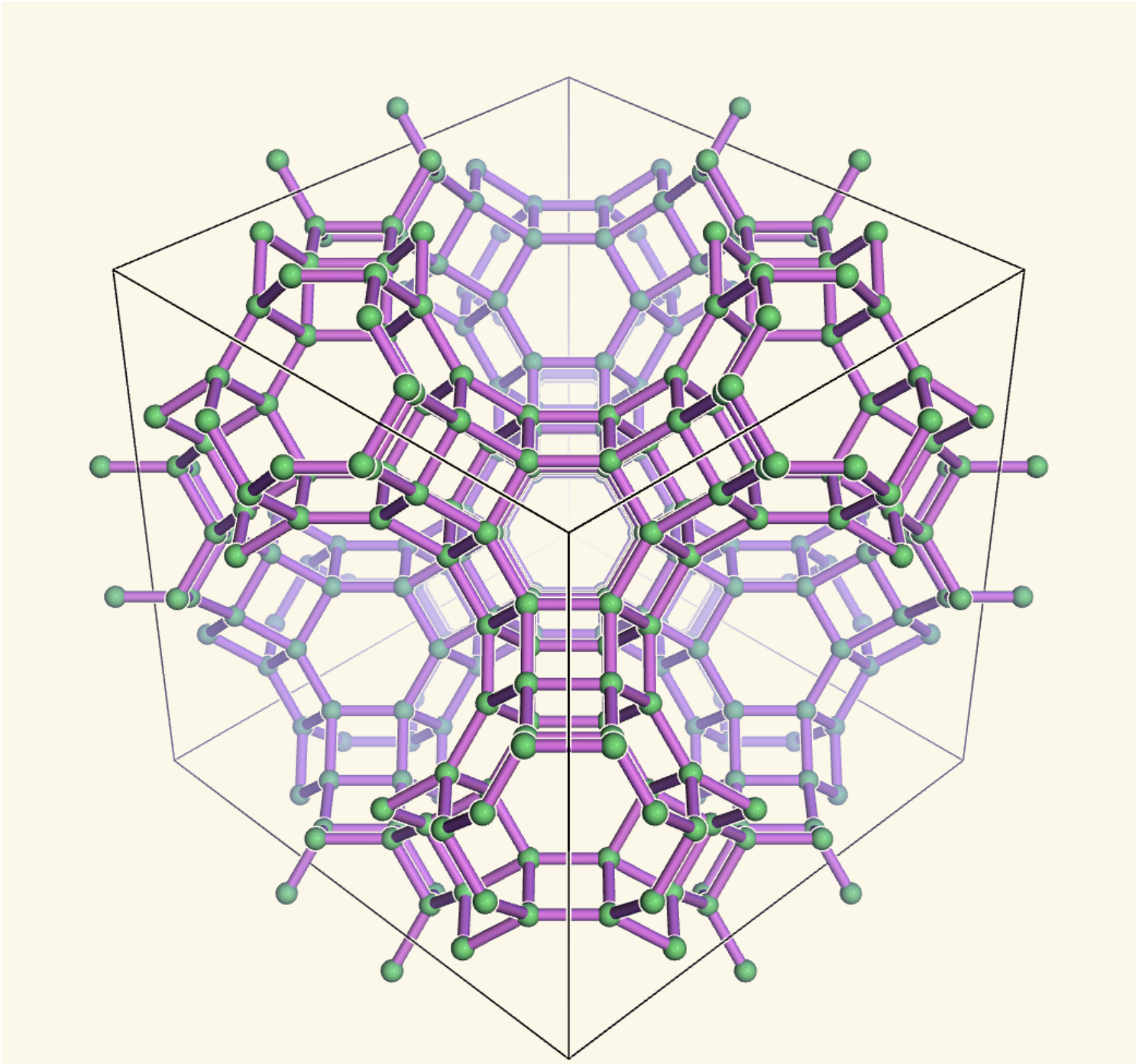
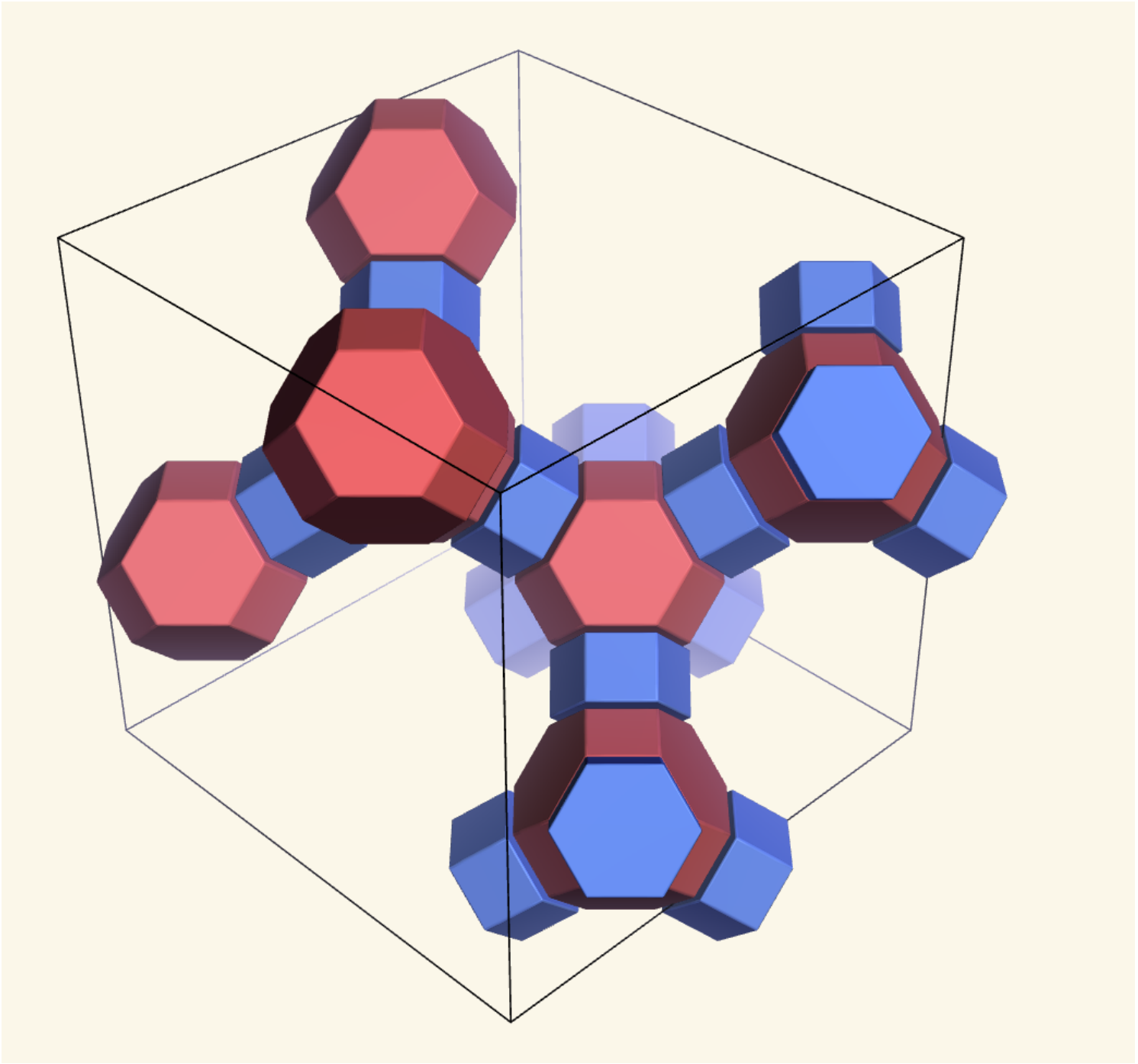
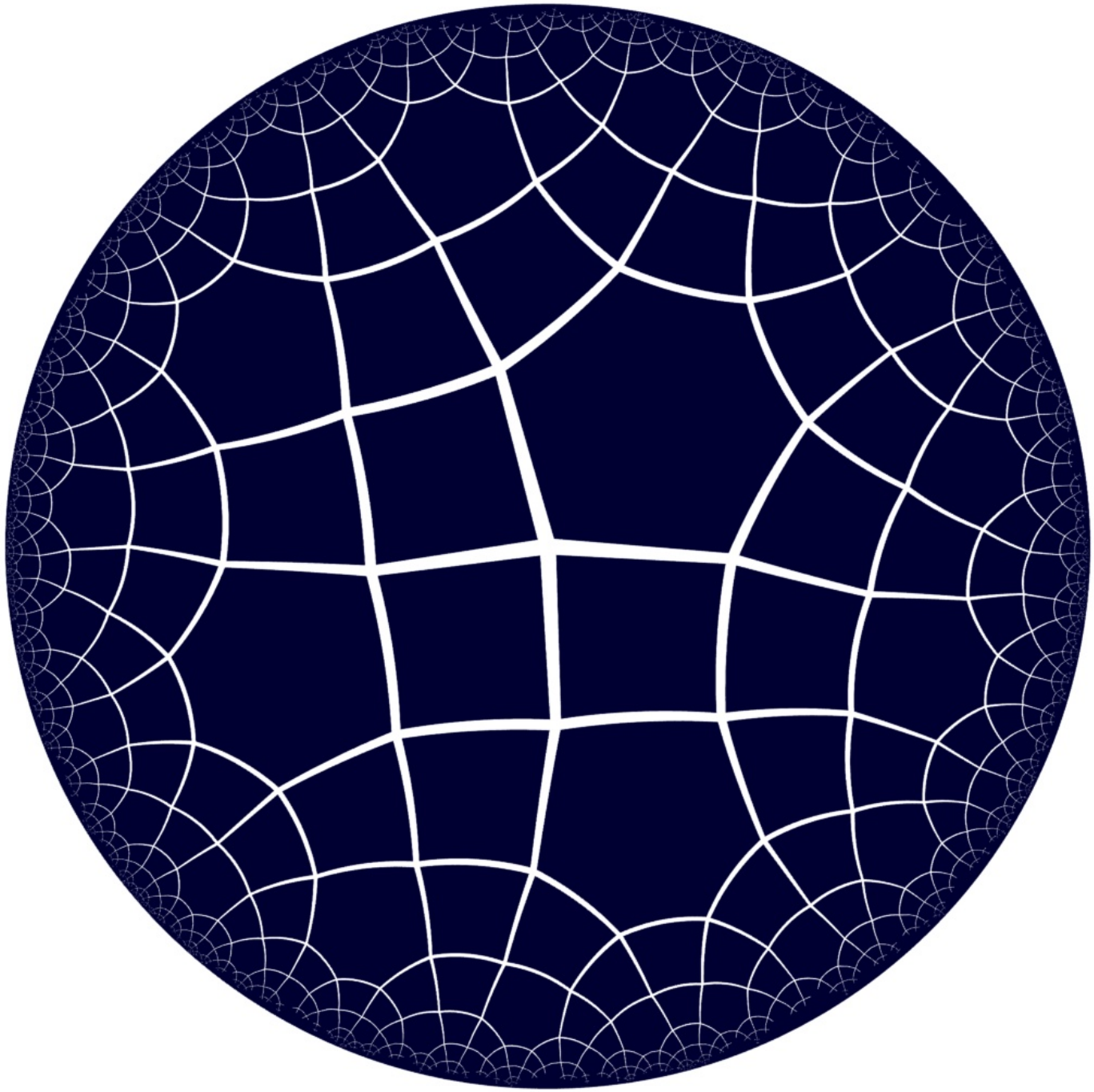
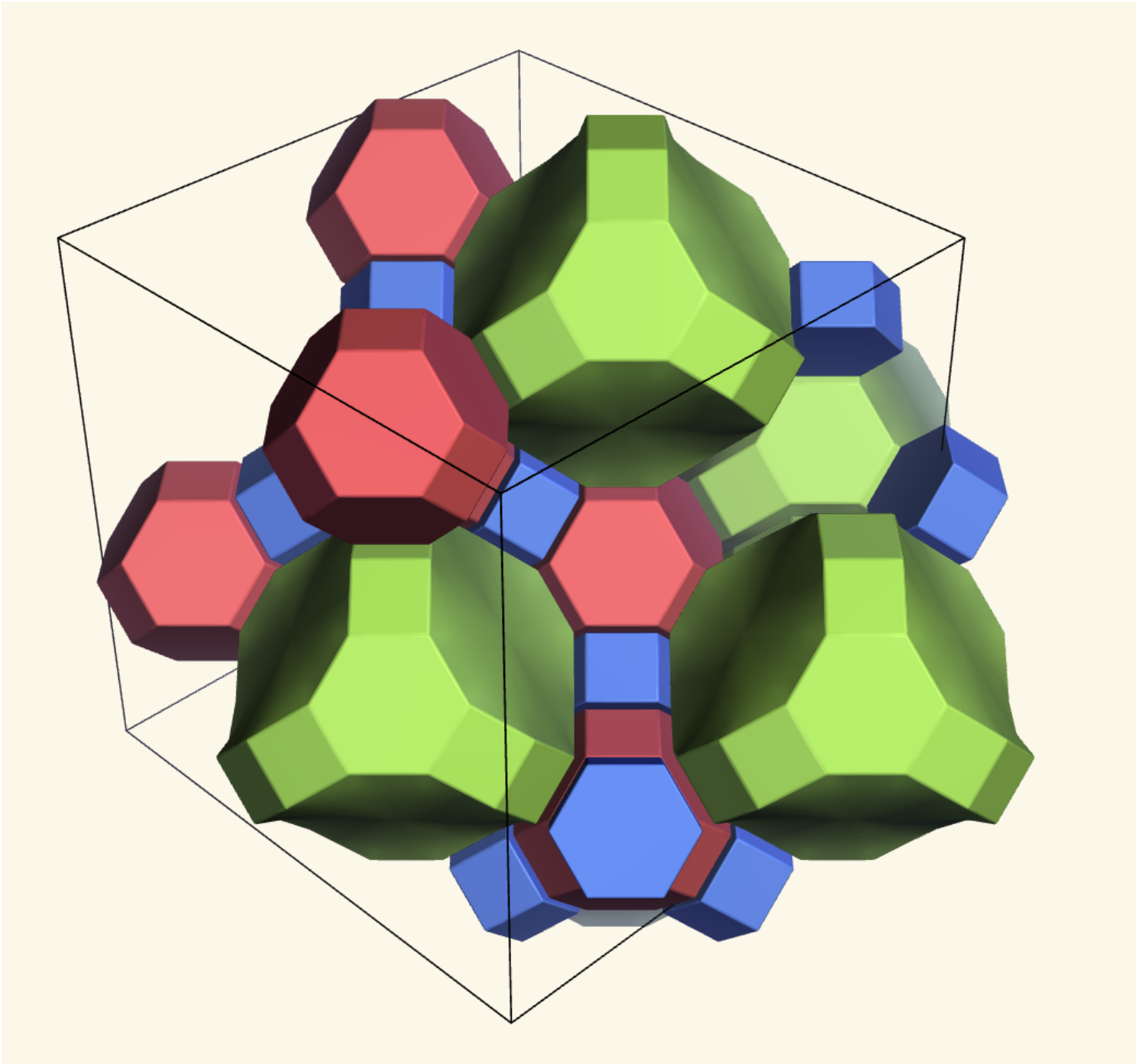
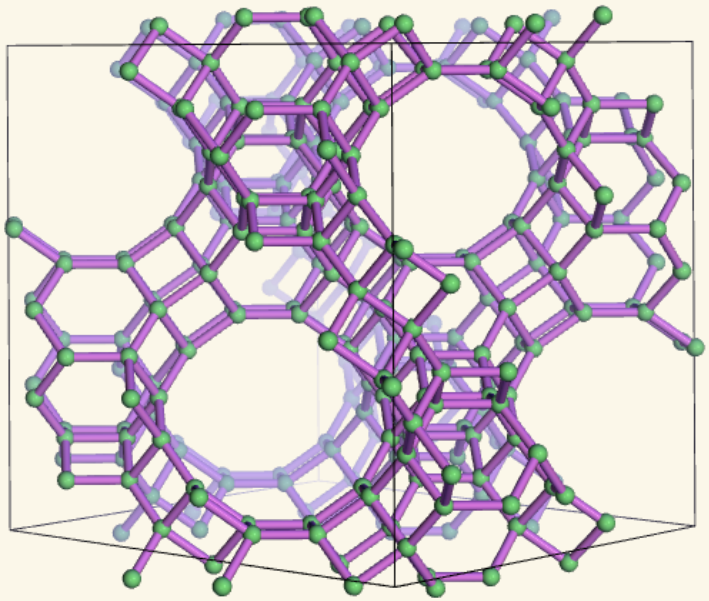
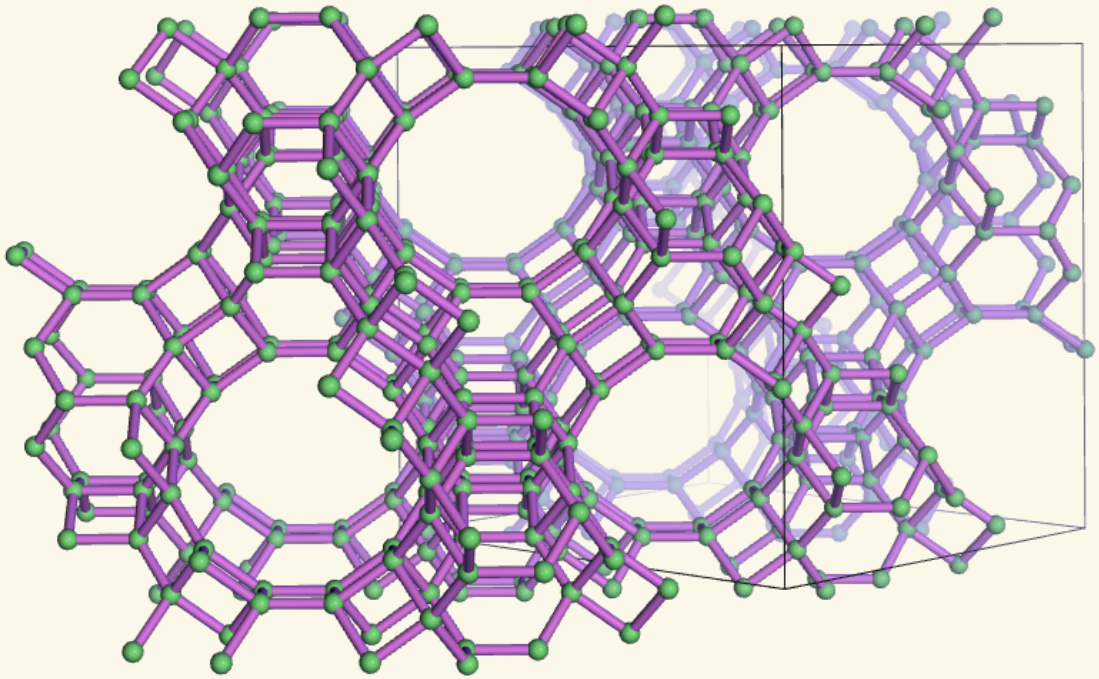
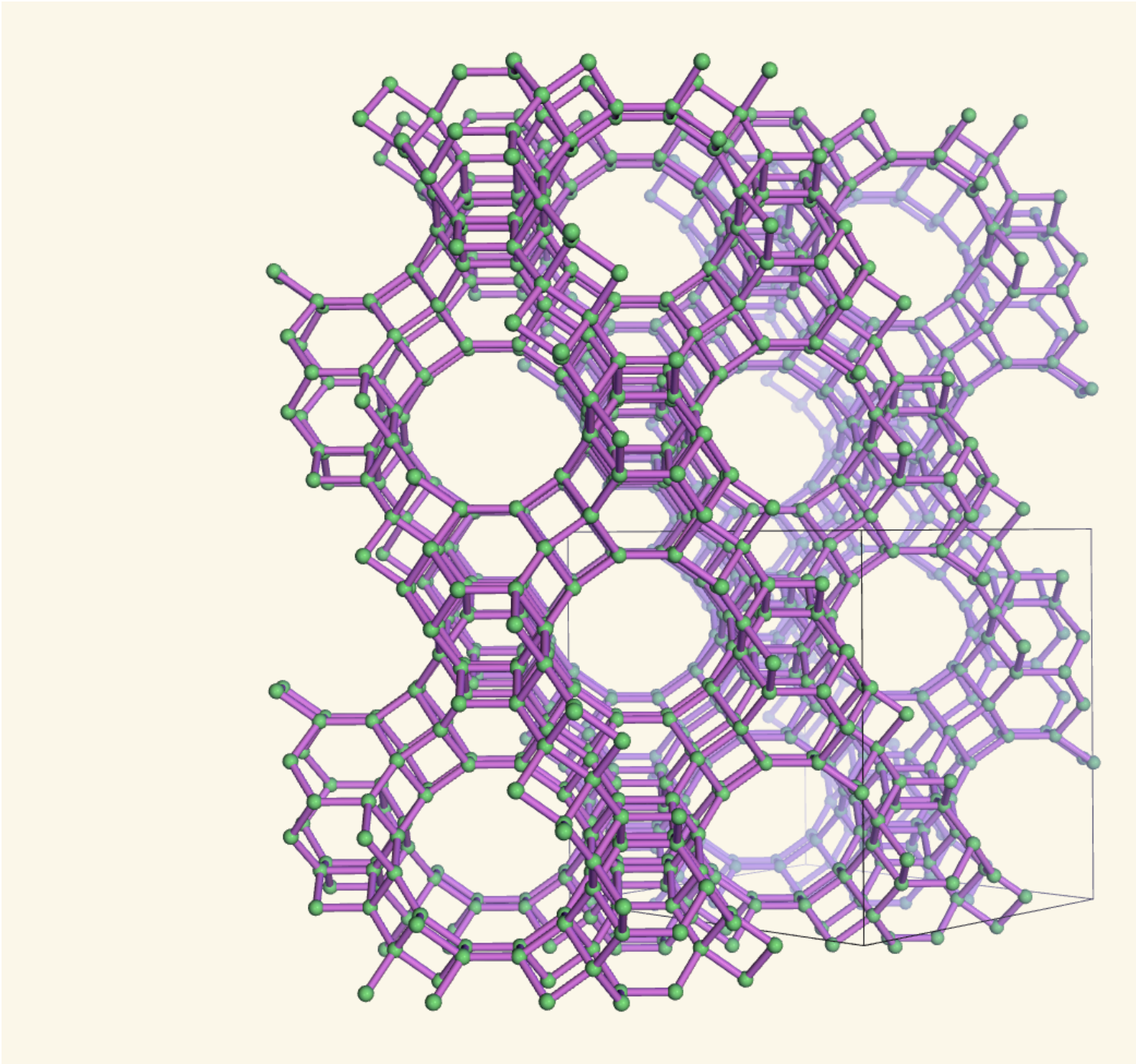
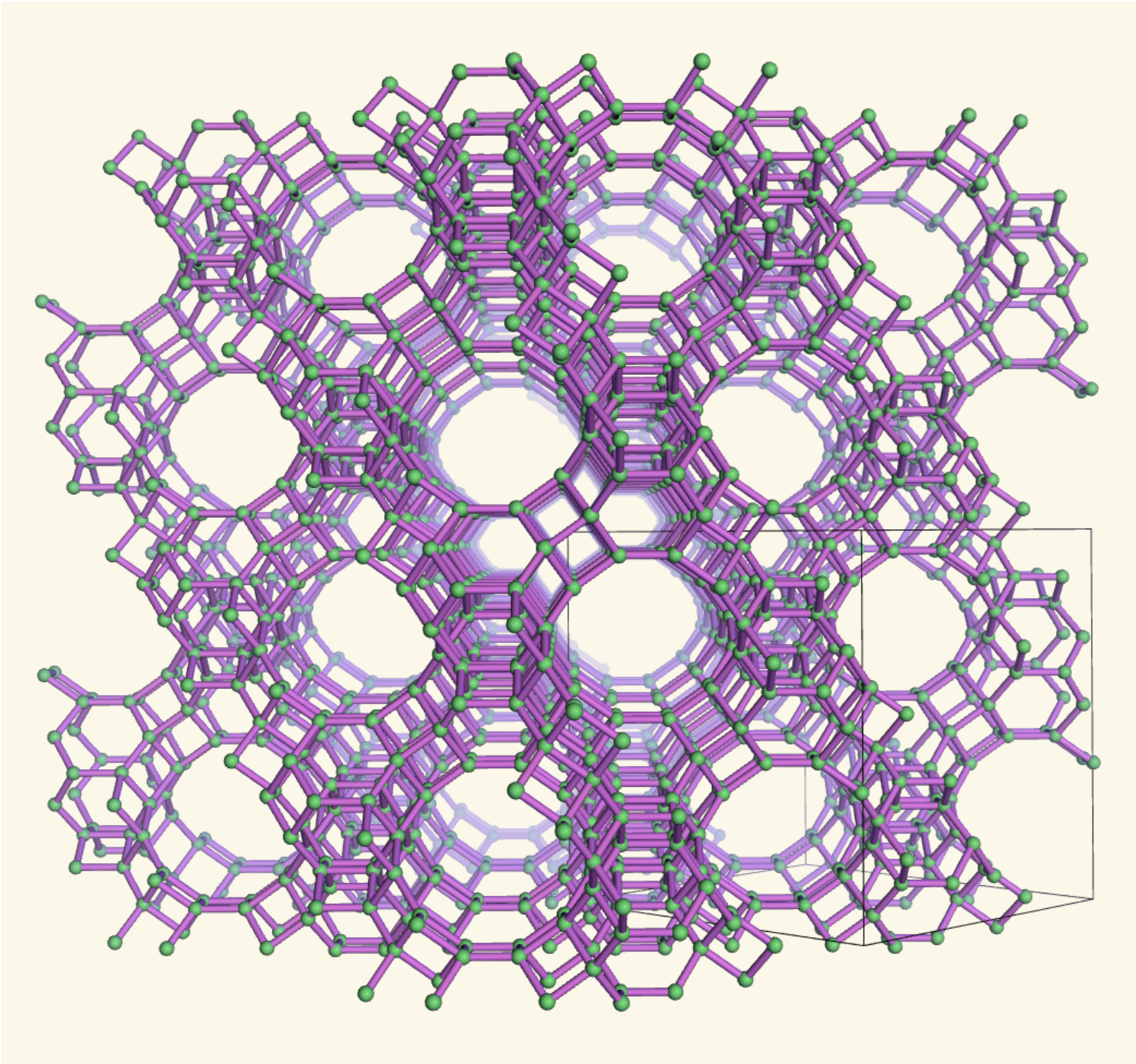
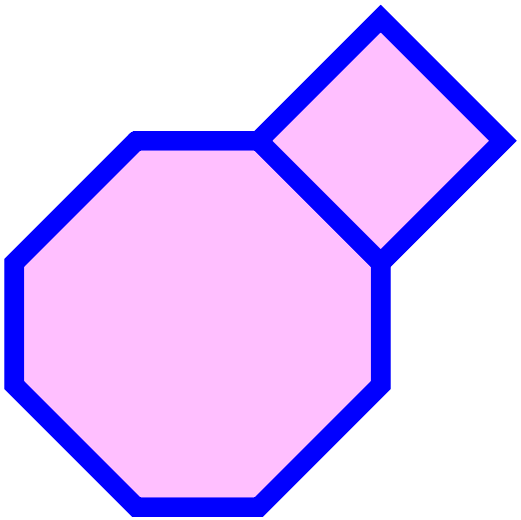
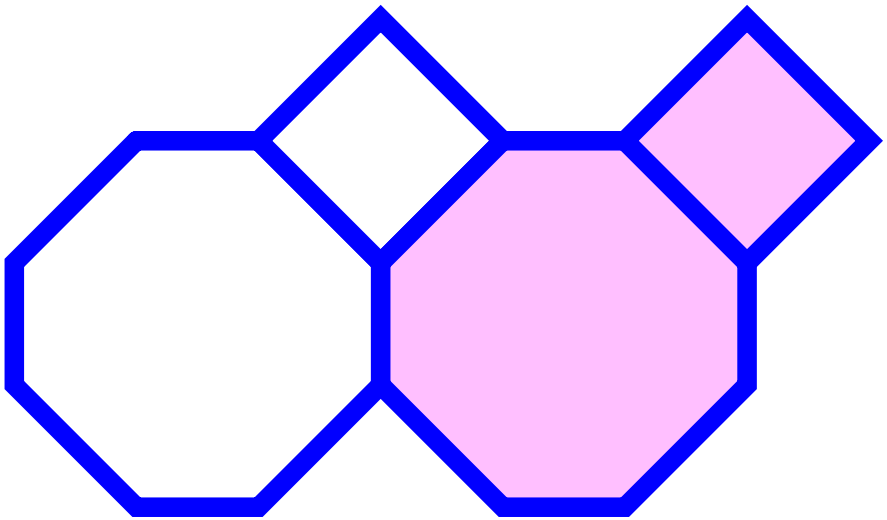
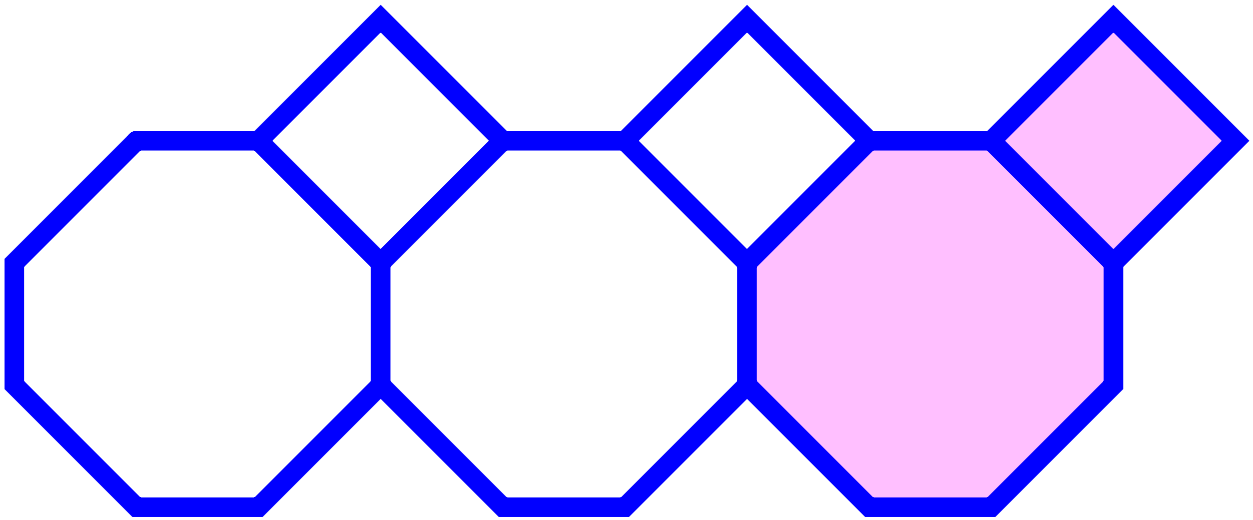
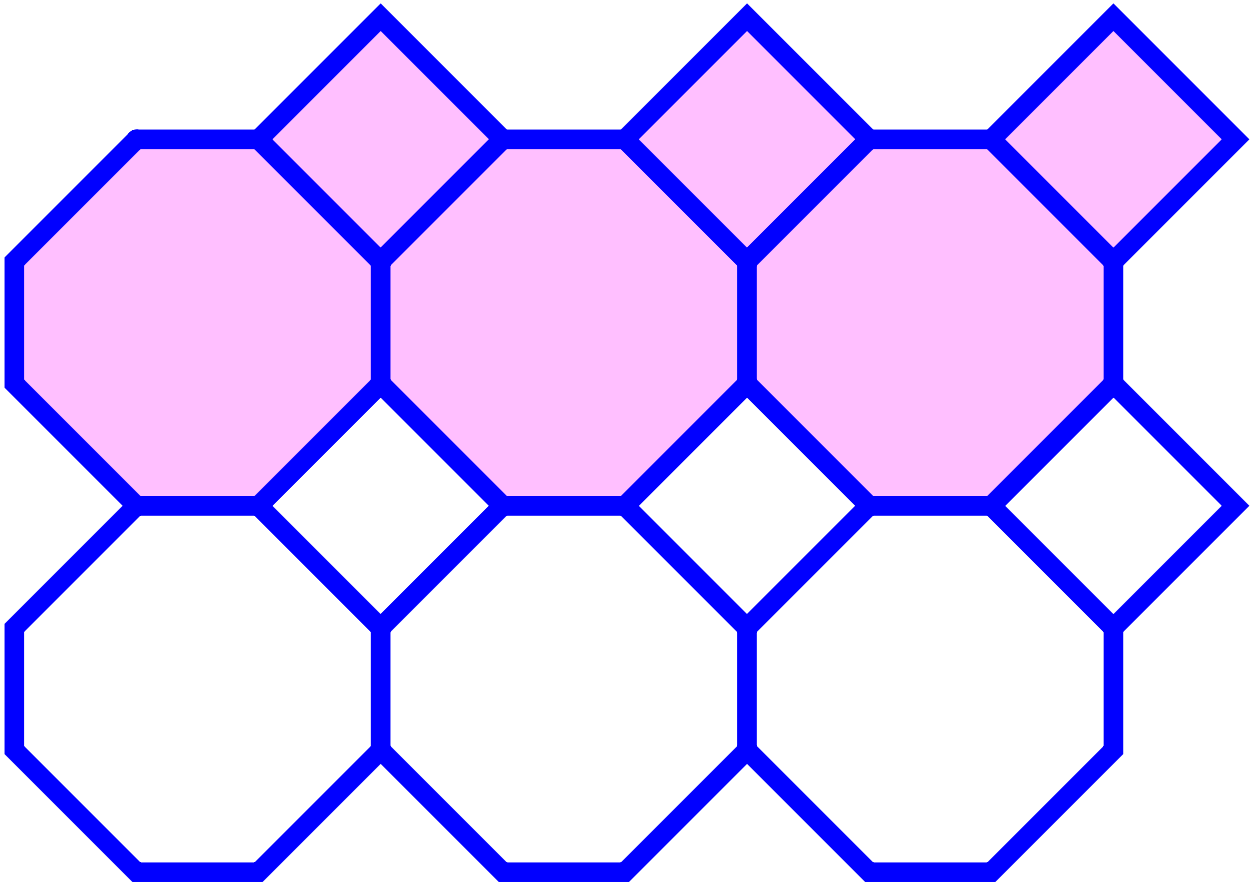
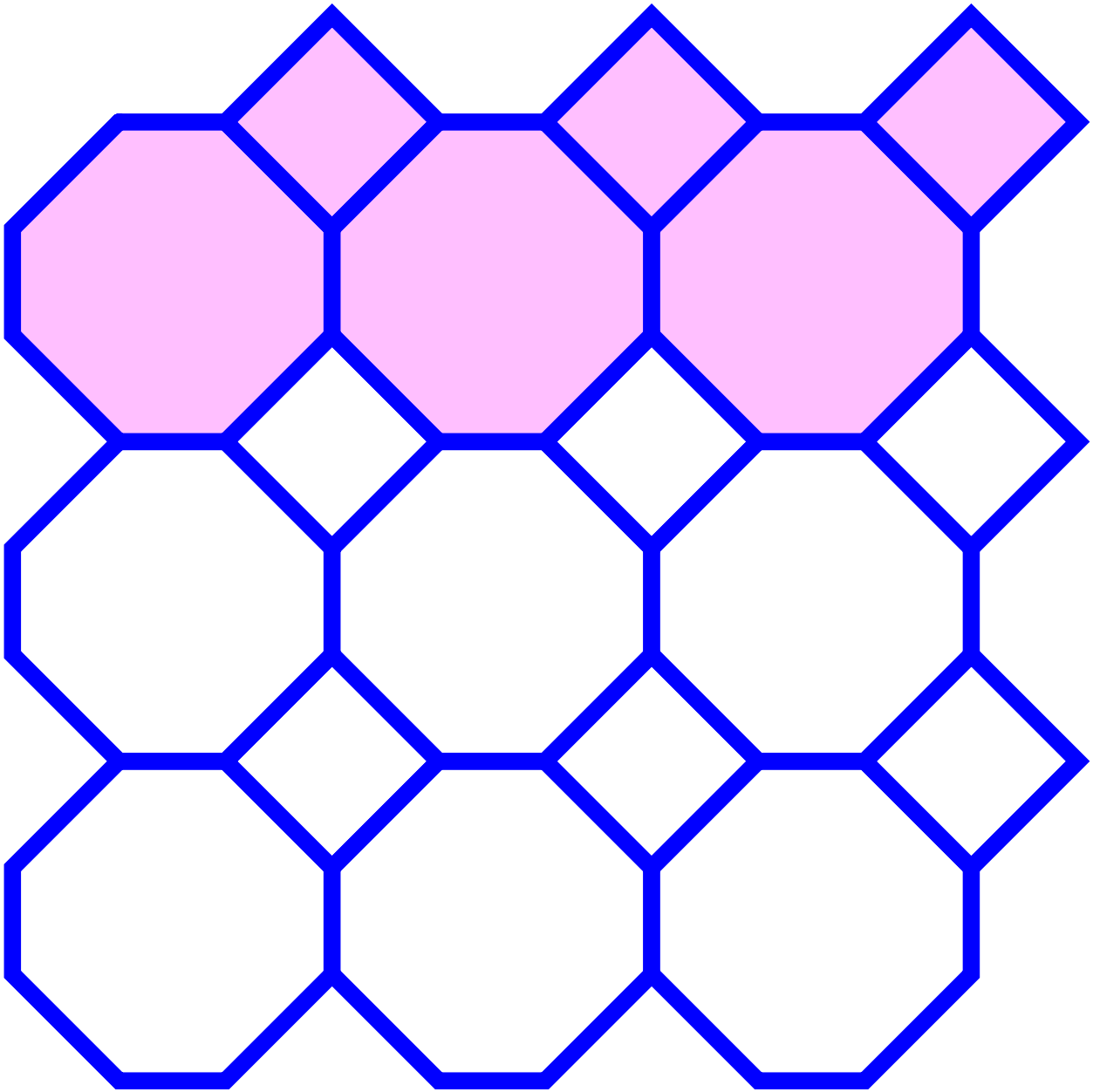
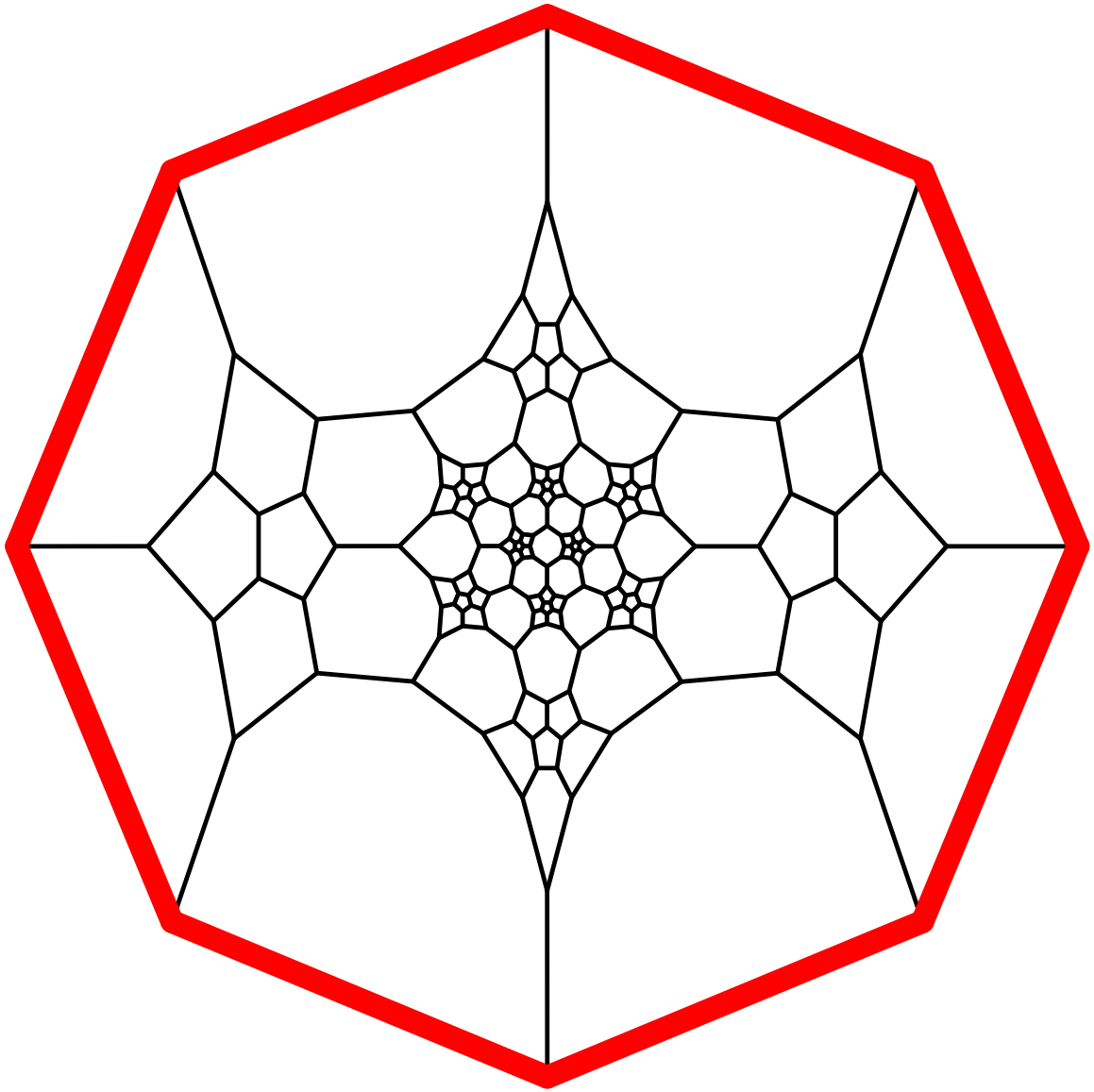
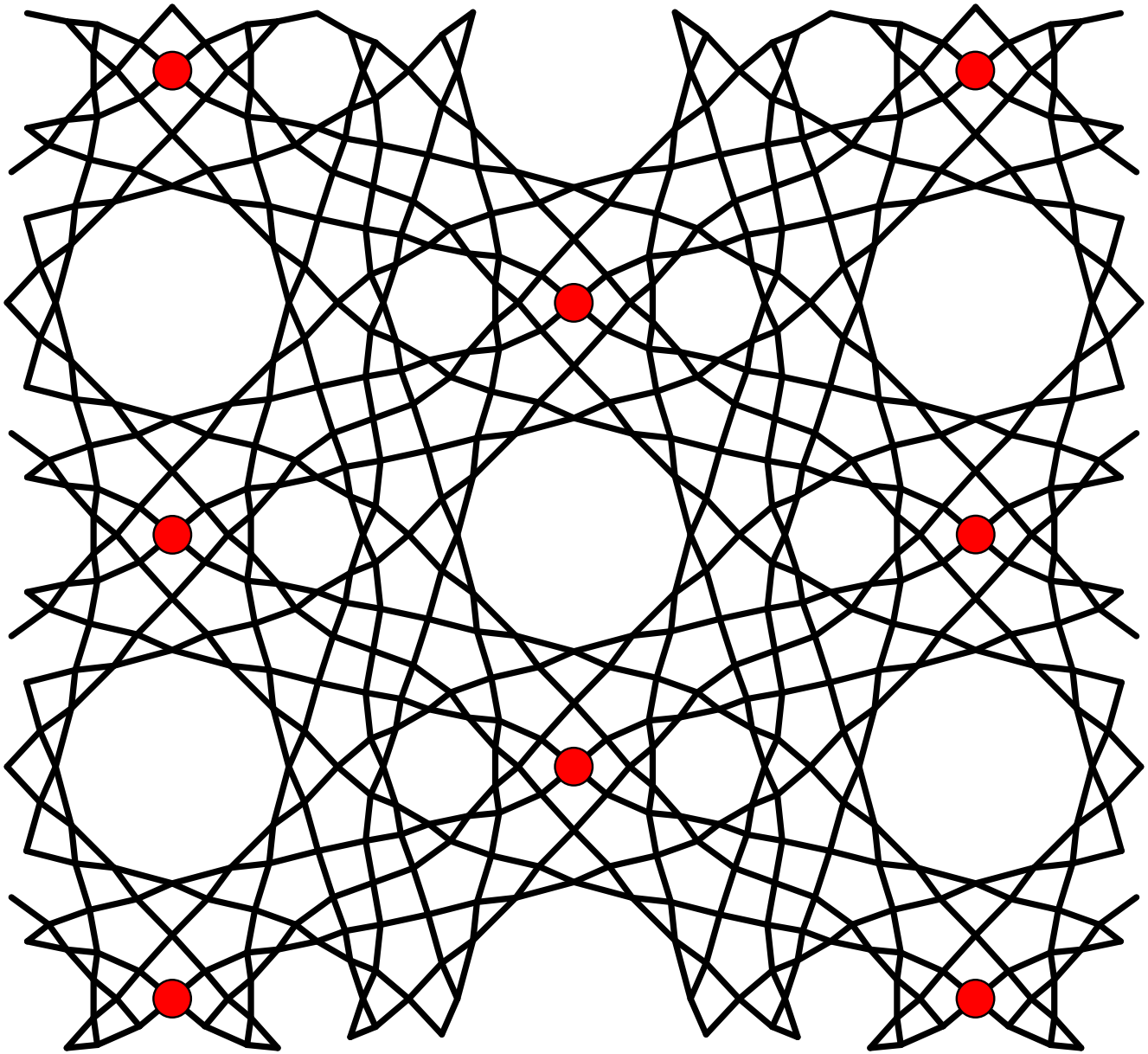
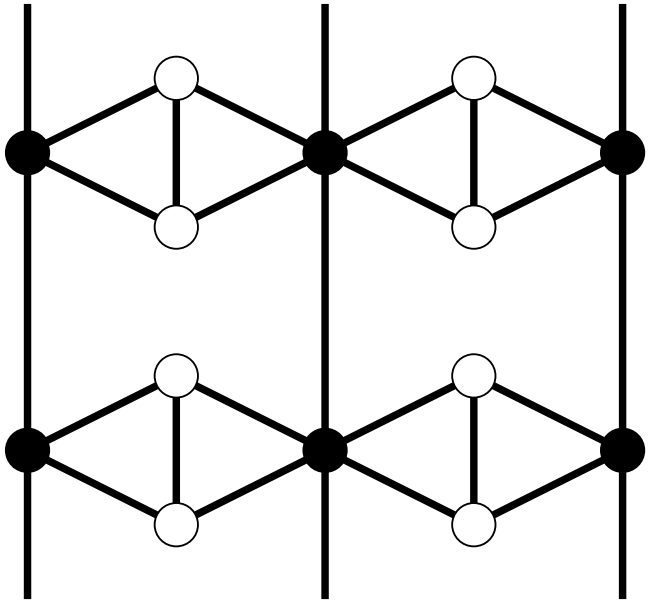
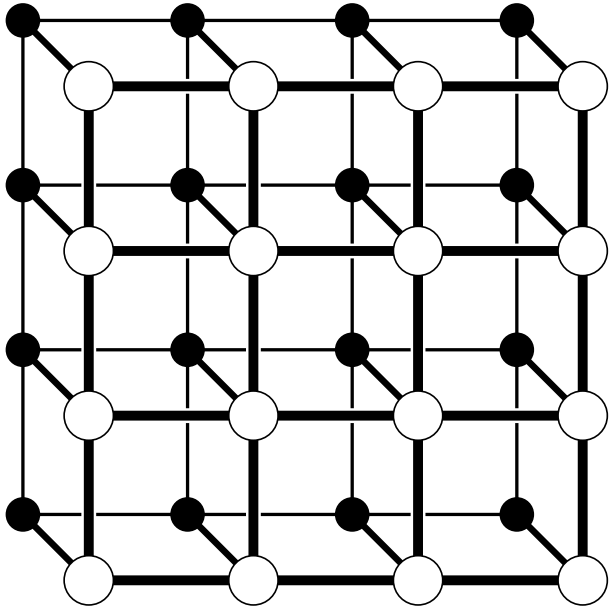
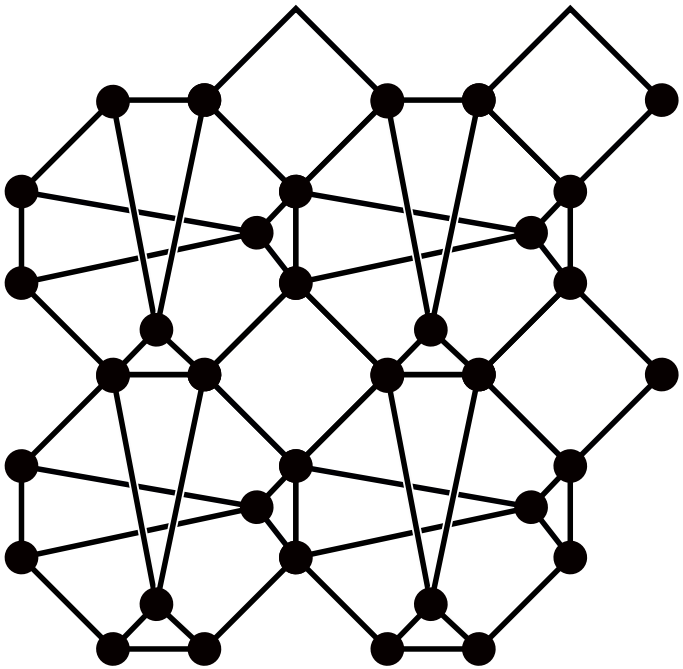
Crystal nets

Tutte's barycentric embedding

Answer: when it has “too much symmetry”.





More precisely: when its automorphism group is not a crystallographic space group.

(*Crystallographic nets and their quotient graphs,* W. E. Klee 2004.)