

Exercise in class No. 1**18.02.2025**

1. Using Vesta and attached instructions, present pictures of coordination polyhedra for cations in BaTiO₃, CaF₂, MgO, SiO₂ (alpha-quartz) and CaCO₃ (calcite) . Compare the outputs, determine where coordination polyhedra share corners, where they share edges, and where they share faces.
2. Using Vesta create structures of CsCl ([9008789.cif](#)) and GaAs ([9008845.cif](#)). Determine all symmetry axes for both structures .