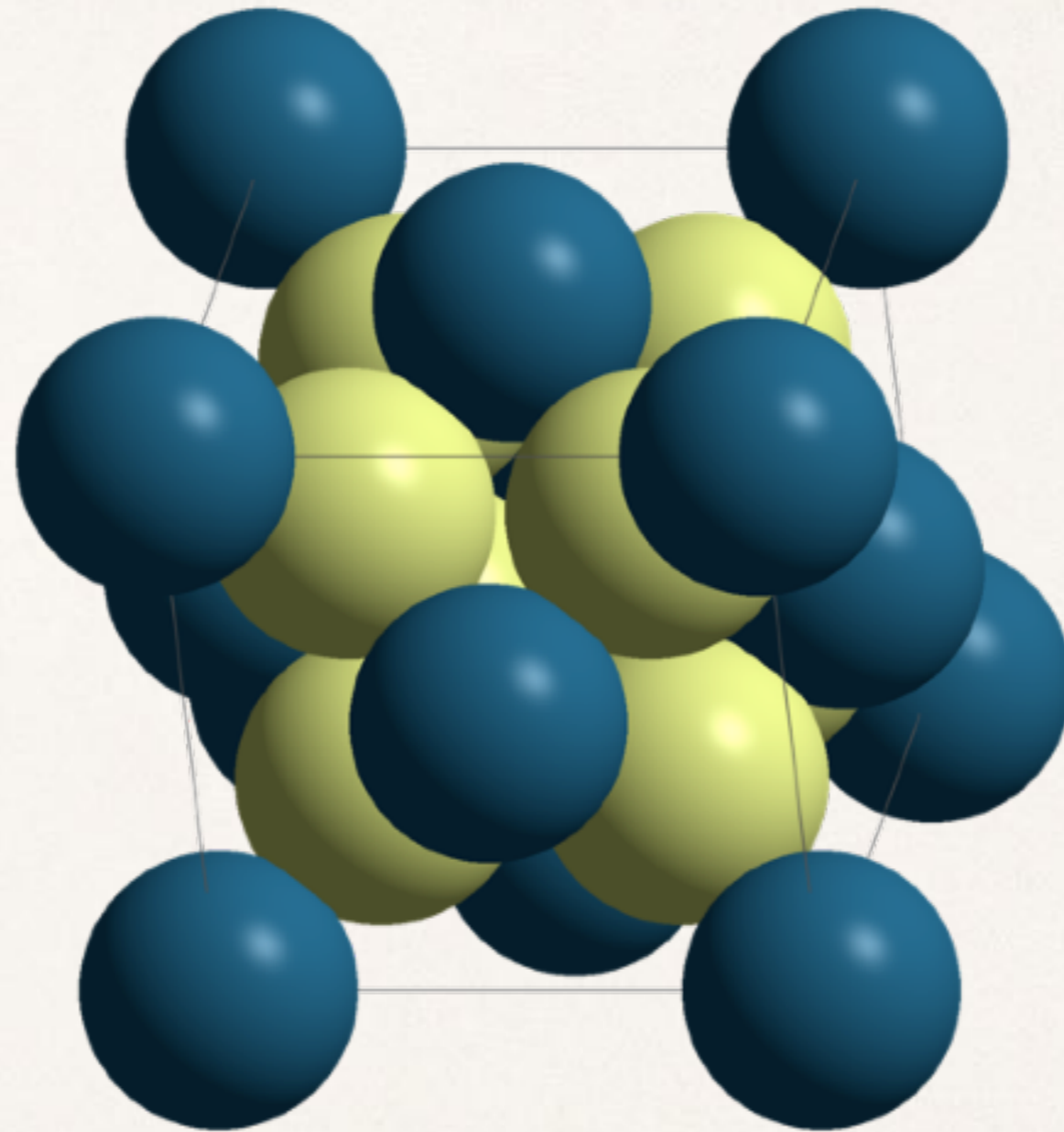


* AX_2 — fluorite CaF_2 , rutile TiO_2



Calcium Fluoride, CaF_2 — the mineral fluorite.

Each Ca ("A") atom is surrounded by eight F ("X" atoms, at the corners of a cube — similar to the arrangement in the CsCl structure type, except that for the AX_2 structure, only one half of the "cubic" sites are occupied.

The fluorite structure type is favored when the two atom types (A and X) are relatively close in size, e.g., $r_A / r_X > 0.73$.