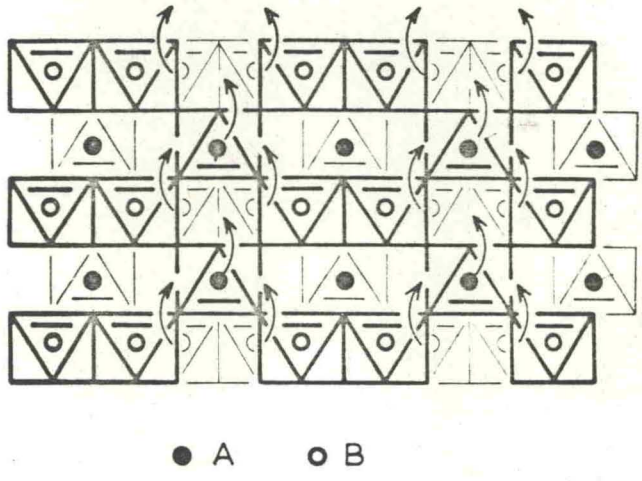

FIG. 3. If cations are shifted in the way described by arrows, the trirutile structure is formed from the Li_2ZrF_6 structure type.

structure type. Amongst the ternary compounds of general formula AB_2X_6 a similar arrangement of (ordered) cations occurs in columbite $FeNb_2O_6$. By analogy with the rutile $\rightleftarrows$ α-PbO_2 transformation, we might therefore expect the AB_2X_6 compounds discussed above to transform at high enough pressures to a ternary analog of α-PbO_2, possibly with the cations ordered as in $FeNb_2O_6$.

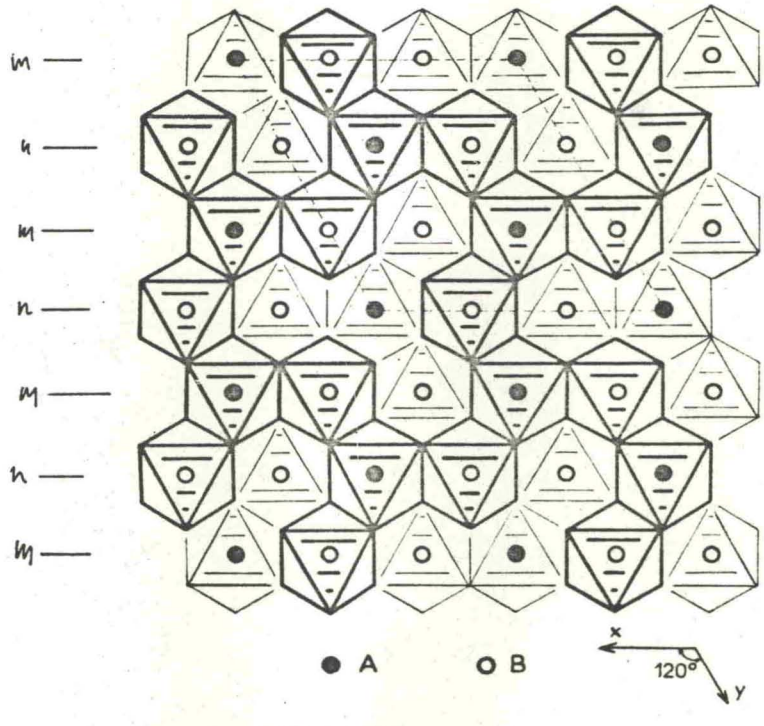

FIG. 4. The Na_2SiF_6 structure type.