

CALCULATION OF ELECTRONIC
POLARIZABILITY OF OXYGEN IONS
IN FERROELECTRIC LiNbO_3

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S u m m a r y

The method of determination of the polarizability anisotropy of oxygen ions in monocrystal structures is considered, based on the Lorenz - Lorentz equation. It is shown that polarizability of the O^{2-} ions in LiNbO_3 structure is sufficiently anisotropic. The main values of the tensor of static electronic polarizability of O^{2-} ions are determined.