

## REFRACTIVE PROPERTIES OF LiNaSO<sub>4</sub> SINGLE CRYSTAL

In this work first principles calculations of dielectric function of LiNaSO<sub>4</sub> single crystals are performed in the framework of density functional theory. In order to describe the exchange-correlation interaction the general gradient approximation and local density approximation are used. From the spectrum of real and imaginary parts of dielectric function, refractive indices and absorption coefficients are obtained. Experimental study of refractive indices dispersion and birefringence of LiNaSO<sub>4</sub> crystals is performed using standard immerse and spectroscopic methods.

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