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A Study of the LiNbO_3 and LiTaO_3 Absorption Edge

Süleyman ÇABUK, Amirullah MAMEDOV

Department of Physics,

Faculty of Arts and Sciences,

Çukurova University,

01330 Adana-TURKEY



[Keywords](#)

[Authors](#)

Abstract: Optical spectroscopy methods are used to study the spectra of some oxygen-octahedral ferroelectrics - LiNbO_3 and LiTaO_3 . Study of the role of BO_6 octahedron by using spectroscopic methods can cast light on the many physical phenomena that place in LiNbO_3 and LiTaO_3 . For these crystals, absorption edge, band gap, Urbach constants and phonon energy were found.



phys@tubitak.gov.tr

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