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Refractive index in the region of excitonic resonances in TLGase2 Crystals

Abstract

The low-temperature transmission and wavelength modulated transmission spectra of TlGaSe2 crystals with a thickness of 7, 5.7, 4.7 μ m were measured. Refractive index was calculated from interference observed in transmission spectra. The spectral dependences of the normal dispersion na (E|a) and nB (E|B) and Δ n = na (E|a) – nB (E|B) on the long-wavelength and short-wave side of the ground states A, B and C of excitons are determined. © Springer Nature Switzerland AG 2020.