



Polariton emission from CuGaSe₂ crystals

N. N. Syrbu, I. M. Tiginyanu, V. V. Ursaki, V. E. Tezlevan,
V. V. Zalamai, L. L. Nemerenco

<https://doi.org/10.1016/j.physb.2005.04.033>

Abstract

The value of longitudinal–transverse splitting ω_{LT} equal to 2.5–2.8 meV and the translation mass $M=2.5m_0$ were determined for the A exciton as a result of investigation of the reflectivity and luminescence spectra of CuGaSe₂ crystals. The emission from the upper and lower polariton branches of the long-wavelength exciton was observed.