

VIBRATIONAL SPECTRUM OF LEAD
THIOGALLATE CRYSTALS

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S u m m a r y

Raman scattering (RS) of light in a PbGa_2S_4 crystal has been studied. The method of factor-group analysis was applied to calculate, for the first time, the phonon spectrum of this crystal. The number of modes, which are active in Raman spectra, their symmetry, and selection rules have been determined. The identification of modes, which are observable in the Raman spectra, with the vibrations of atoms that make up the crystal has been carried out.