

PRESSURE EFFECT ON ELECTRON SPECTRA
OF INDIUM AND THALLIUM HALOGENIDES

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S u m m a r y

The structural and electronic properties of indium and thallium halogenides have been studied theoretically in a wide pressure range using self-consistent calculations within the pseudopotential method. The crucial role of a cation ns^2 electron pair in the structure formation and the stabilization of compounds with low-valence cations has been confirmed. The limiting values of pressure that induce phase transitions into a high-symmetry structure of the CsCl type and into a metallic state have been determined. The sequence of structural phase transitions in InCl crystals has been found.