

PECULIARITIES OF EXCITON  
AND EPR SPECTRA OF 2H-PbI<sub>2</sub>  
LAYERED CRYSTALS WITH HIGH  
CONCENTRATION OF Mn IMPURITY

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S u m m a r y

Recent results on the study of exciton and EPR spectra of PbI<sub>2</sub> layered crystals of the 2H polytype doped with a high concentration of the Mn impurity are discussed. The anomalous temperature shift of the exciton band  $n = 1$  is found and explained by means of anharmonic vibrations of the layered lattice at  $T < 40$  K and low-frequency optical phonons at  $T > 40$  K. It is shown that single Mn<sup>2+</sup> ions cause six weak lines, while exchange-bound Mn<sup>2+</sup> ions cause the intense broad line in EPR spectra.