

Abstract Submitted
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Optical Properties of PbTe and PbSe¹ CHINEDU EKUMA, Department of Physics and Astronomy, Louisiana State University, Baton Rouge, LA, DAVID SINGH, Material Science and Technology Division, Oak Ridge National Laboratory, TN, USA, JUANA MORENO, MARK JARRELL, Department of Physics and Astronomy, Louisiana State University, Baton Rouge, LA — We report optical properties of PbTe and PbSe as obtained from first principles calculations with the Tran-Blaha modified Becke-Johnson potential. The results are discussed in relation to existing experimental data, particularly in relation to the temperature dependence of the band gap.

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