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Band Gap of Cubic AlN, GaN and InN Compounds Under Pressure

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Abstract: Numerical simulation based on FP-LAPW calculations is applied to study the lattice parameters, bulk modulus and band gap energy of zinc blende binaries AlN, GaN and InN under hydrostatic pressure. The results obtained are in a good agreement with experimental and theoretical values.

Key Words: Lattice parameter, bulk modulus, pressure coefficient, FP-LAPW, WIEN(2k).

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