

High Pressure Amorphization of Bi_4I_4 – Bi^+ Formation and Superconductivity

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Abstract

The recent demonstration of high pressure superconductivity in the exotic topological insulator Bi_4I_4 ,^{1,2} through a presumed amorphization process, can be understood as the formation of an irregular lattice of monovalent bismuth ions - Bi^+ , and their predicted electronic Bose-Einstein condensation of bosons.³ An obvious prediction derived from this scenario is a density dependent critical transition temperature.

Introduction

References

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