

Abstract Submitted
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Superconductivity in Topological Parent Compound Induced via Pressure¹ C.Q. JIN, Institute of Physics, CAS, China, J.L. ZHANG, S.J. ZHANG, H.M. GONG, W. ZHANG, P.P. KONG, J. ZHU, R.Z. YU, L.X. YANG, S.M. FENG, Q.Q. LIU, X.C. WANG, R.C. YU, Institute of Physics, Chinese Academy of Sciences, China, W.G. YANG, L. WANG, HPSync, APS, ANL, USA, S.C. ZHANG, Department of Physics, Stanford University, USA, X. DAI, Z. FANG, Institute of Physics, Chinese Academy of Sciences, China — We report successful observation of pressure induced superconductivity in topological compound of Bi_2Te_3 single crystal induced via pressure [1]. The combined high pressure structure investigations with first-principles calculations indicated that the superconductivity occurs at the ambient phase of topologically nontrivial. The results suggest topological superconductivity can be realized in the parent state of Bi_2Te_3 topological material. Ref: [1] J. L. Zhang et al., “Pressure induced superconductivity in the parent compound of Bi_2Te_3 ” (submitted)..

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