

Superconductivity in a topological Insulator doped with Pd and H.

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The topological Insulator Bi_2Te_3 was doped with different amounts of high purity Pd. Superconductivity was observed with a transition temperature about 4 K. After injecting Hydrogen, we observed an addition increment of the amount of diamagnetic phase. In this presentation we will show our experimental findings and we will comment about the possible superconducting pairing mechanisms.