Title:	The H-T and P-T Phase Diagram of the Superconducting Phase in Pd:Bi2Te3
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Keywords:	Topological states Intense research Short span
Issue Date:	2016
Publisher:	Springer Link
Citation:	Journal of Superconductivity and Novel Magnetism,29(8), pp.1975-1979.
Abstract:	We study the magnetic field vs. temperature (H – T) and pressure vs. temperature (P – T) phase diagrams of the T c ≈ 5.5 K superconducting phase in Pd x Bi2Te3 (x ≈ 1) using electrical resistivity versus temperature measurements at various applied magnetic fields (H) and magnetic susceptibility versus temperature measurements at various applied magnetic fields (H) and pressure (P). The H – T phase diagram has an initial upward curvature as observed in some unconventional superconductors. The critical field extrapolated to T = 0 K is H c (0) ≈ 6–10 kOe. The T c is suppressed approximately linearly with pressure at a rate d T c /d P ≈ −0.28 K/GPa.
URI:	https://link.springer.com/article/10.1007/s10948-016-3499-x (https://link.springer.com/article/10.1007/s10948-016-3499-x) http://hdl.handle.net/123456789/2514 (http://hdl.handle.net/123456789/2514)
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