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Title:	Heat capacity evidence for conventional superconductivity in the type-II Dirac semimetal PdTe 2				
Authors:	Amit (/jspui/browse?type=author&value=Amit) Singh, Yogesh (/jspui/browse?type=author&value=Singh%2C+Yogesh)				
Keywords:	Paul Adrien Maurice Dirac Specific heat Electrical conduction Palladium compounds				
Issue Date:	2018				
Publisher:	American Physical Society				
Citation:	Physical Review B, 97(5).				
Abstract:	We use electrical transport, magnetoresistance, and heat capacity measurements on high quality single crystals of the recently discovered superconducting type-II Dirac semimetal PdTe2, to probe the nature of its superconducting phase. The magnitude of the electronic heat-capacity anomaly at Tc, the low temperature exponential T dependence of the heat capacity, the linear H dependence of the T=0 electronic Sommerfeld coefficient, and a conventional H-T phase diagram establish that the superconductivity in PdTe2 is conventional in nature despite the presence of a topologically nontrivial Fermi surface band, which contributes to the electrical conduction				
URI:	https://journals.aps.org/prb/abstract/10.1103/PhysRevB.97.054515 (https://journals.aps.org/prb/abstract/10.1103/PhysRevB.97.054515) http://hdl.handle.net/123456789/2136 (http://hdl.handle.net/123456789/2136)				
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