

Abstract Submitted
for the MAR12 Meeting of
The American Physical Society

Millikelvin transport of high quality Bi₂Se₃ crystals at high pressure KEVIN KIRSHENBAUM, Center for Nanophysics and Advanced Materials, Physics Dept., University of Maryland, JASON JEFFRIES, NICHOLAS BUTCH, Lawrence Livermore National Laboratory, PAUL SYERS, Center for Nanophysics and Advanced Materials, Physics Dept., University of Maryland, JAMES HAMLIN, BRIAN MAPLE, University of California at San Diego, JOHNPIERRE PAGLIONE, Center for Nanophysics and Advanced Materials, Physics Dept., University of Maryland — In this study we present electronic transport in Bi₂Se₃ single crystals in a diamond anvil pressure cell. Reaching temperatures down to 20 mK and pressures exceeding 30 GPa we measure changes in electrical resistivity, magnetoresistance, and the Hall effect and discuss the results as they pertain to topologically interesting behavior.

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Date submitted: 28 Nov 2011

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