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Magneto-Transport in Epitaxial Thin Film Sb_2Te_3 E.C. GINGRICH, N.O. BIRGE, Michigan State University, G. WANG, C. UHER, University of Michigan — We report magneto-transport measurements in epitaxially grown thin films of Sb_2Te_3 . Sb_2Te_3 is a topological insulator candidate expected to possess a single Dirac cone on its surface.¹ Both semiconducting and metallic samples were measured, identified by the temperature response of their resistivities. Shubnikov-deHaas (SdH) oscillations were found in measurements with fields up to 9T in metallic samples at liquid helium temperature, but have yet to be observed in semiconducting samples. Measurements will be presented along with plans for further research.

¹H. Zhang et al., Nat. Phys. 5, 438 (2009).

Eric Gingrich
Michigan State University

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