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High Field Magnetoresistance in ultra pure Bi2Se3 PAUL SYERS, University of Maryland, NICHOLAS BUTCH, Lawrence Livermore National Laboratory, CYRIL PROUST, BAPTISTE VIG-NOLLE, LNCMI-Toulouse, JOHNPIERRE PAGLIONE, University of Maryland — The longitudinal and transverse components of magnetoresistance were measured in bulk crystals of undoped, high purity Bismuth Selenide in pulsed magnetic fields of up to 60 Tesla. Data is presented from samples with a range of carrier concentrations extending into the quantum limit. Measurements were also performed at multiple angles along the plane containing the current direction to investigate the angular dependence of the linear behavior of the magnetoresistance in this material.

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