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Toward Insulating Behavior in Bi_2Se_3 PAUL SYERS, JOHNPIERRE PAGLIONE, University of Maryland — Research in the area of Topological Insulators has made great progress with Bismuth Selenide in recent years. However, achieving true insulating behavior in bulk samples of Bi_2Se_3 has proven elusive due to the difficulty in controlling the stoichiometry of this compound during synthesis. Here we report on progress with the synthesis and characterization of high purity, undoped Bi_2Se_3 crystals with the lowest carrier densities and highest resistivities reported to date.

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