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Superconducting Proximity Effect in Topological Insulators ANDREW BESTWICK, MELIS TEKANT, JAMES WILLIAMS, DAVID GOLDHABER-GORDON, Stanford University, KEHUI WU, YONGQIN LI, Institute of Physics Chinese Academy of Sciences, JAMES ANALYTIS, University of California, Berkeley, ANDREW BLEICH, IAN FISHER, Stanford University — Superconductor-topological insulator interfaces are prime candidates in the search for Majorana fermions in the solid state. We report on recent transport measurements of proximity-induced superconductivity through topological insulators with varying chemical compositions and growth methods. We will discuss the Josephson effect, tunneling spectroscopy, and measurement of normal-state conduction channels as means to detect Majorana states.

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