

Abstract Submitted
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Josephson Junctions based Suspended Bi₂Se₃ nanoribbons YAN-MENG SHI, ZHIYONG WANG, JING SHI, CHUN NING LAU, Univ of California - Riverside — As an important member of topological insulator family, Bi₂Se₃ has Dirac surface states and a 300meV bulk energy gap. Hybrid Bi₂Se₃/superconductor junctions have the promise of realizing Majorana fermions, and have attracted much interest recently. In our work, we fabricate suspended Bi₂Se₃ nanoribbon devices with superconducting Al electrodes, and study their transport transport properties. We will present our latest transport data at the meeting.

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