

Abstract Submitted
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Transport study of Superconductor - Graphene - Superconductor system VIVEK KAKANI, XURUI ZHANG, University of Texas at Dallas, ELIZABETH ZHOU, University of Southern California, XIAOYAN SHI, University of Texas at Dallas — Probing interactions present in a coexisting quantum hall and superconducting state has proven to be elusive. In this work, encapsulated graphene contacted by superconducting material is proximity coupled attempting to realize this unique state. Magnetotransport study of the device at low temperatures has revealed signatures of interesting quantum oscillations and Andreev reflection at the metal-superconductor junction.

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