

Abstract Submitted
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Electrical Transport in bilayer graphene PNP junctions LEI JING, JAIRO VELASCO, PHILIP KRATZ, WENZHONG BAO, CHUN NING LAU, Univ. of California, Riverside — Graphene provides a unique platform to study quantum transport phenomena in mesoscopic physics system. We apply multilevel lithography method to fabricate contactless top gate above bilayer graphene flakes. To explore its electrical properties, transport spectroscopy measurements are carried out to investigate *pnp* junction's conductance and magnetoresistance. Our latest experimental results will be discussed and compared with theoretical predictions.

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