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Conductance Fluctuations in the Quantum Hall Regime by Graphene *pnp* Junctions JAIRO VELASCO JR., LEI JING, GANG LIU, WENZHONG BAO, PHILIP KRATZ, MARC BOCKRATH, CHUN NING LAU, University of California, Riverside, LAU GROUP TEAM — We investigated quantum hall conductance in high quality graphene *pnp* junctions with suspended top gates. In high magnetic fields, in addition to well-developed integer conductance plateaus for the first 5 Landau levels, we also observe prominent conductance fluctuations on transitions between the plateaus as the top gate voltage is varied. Latest experimental progress regarding the interpretation of these conductance fluctuations will be discussed.

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