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Magnetotransport measurements in graphene/ferromagnetic insulator heterostructures AARON SHARPE, Stanford University, WENMIN YANG, Institute of Physics, Chinese Academy of Science, MENYOUNG LEE, DAVID GOLDHABER-GORDON, Stanford University, TAKASHI TANIGUCHI, KENJI WATANABE, National Institute of Material Science, Japan, ROBERT CAVA, Princeton University — Through proximity effects, it is possible for two-dimensional graphene sheets to inherit order parameters from another two-dimensional substrate. Specifically, graphene has been seen to exhibit ferromagnetism when placed on a ferromagnetic insulator. Ferromagnetic graphene is a very promising platform for devices potentially useful for spintronics applications. We present here magnetotransport measurements of graphene/ferromagnetic insulator heterostructures.

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