

Abstract Submitted
for the MAR17 Meeting of
The American Physical Society

Cyclotron Resonance of Graphene-Boron Nitride Heterostructures JORDAN RUSSELL, BOYI ZHOU, ERIK HENRIKSEN, Washington University in St. Louis — We have constructed an apparatus for performing Fourier-transform infrared magneto-spectroscopy on microscopic samples of atomically-thin materials. The design and operation of the instrument will be presented, along with initial observations of the infrared cyclotron resonance in a $200 \mu\text{m}^2$ sample of boron nitride-encapsulated monolayer graphene in magnetic fields up to 11 T. Additionally we will report on progress toward the goal of performing spectroscopy on the Hofstadter butterfly state in graphene-hBN moire superlattices.

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Date submitted: 09 Nov 2016

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