

Abstract Submitted  
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**Scanning tunneling spectroscopy of adsorbates and vacancies on graphene** JYOTI KATOCH, MASA ISHIGAMI, Department of Physics and Nanoscience Technology Center, University of Central Florida, Orlando, FL 32816 — Adsorbates and vacancies sensitively influence transport properties of graphene. We have investigated the impact of adsorbates, such as atomic hydrogen and potassium, and vacancy defects on electronic properties of graphene at atomic scale using scanning tunneling microscopy and spectroscopy. Our results will be discussed in comparison with previous transport measurements to understand the effect of extrinsic disorder on transport properties of graphene.

Jyoti Katoch  
Dept of Physics and Nanoscience Technology Center,  
University of Central Florida, Orlando, FL 32816

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