Abstract Submitted
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Scanning tunneling spectroscopy of chemical vapor deposition
grown graphene DANIEL CORMODE, COLLIN REYNOLDS, BRIAN LEROY,
University of Arizona — The electronic properties of CVD grown graphene were
investigated by scanning tunneling microscopy. Mono and multi layered samples
were prepared by growth on copper and transferred to 300 nm SiO$_2$ substrates.
Raman spectroscopy mapping was used to determine the thickness of the samples
as well as characterize regions of higher disorder as evidenced by an increased D
peak. The samples were then measured in ultra high vacuum by scanning tunnel-
ing spectroscopy at 5 K. The type and density of defects measured with the STM
were compared with measured D peak intensity. We have examined the correlation
between changes in the local density of states and disorder in monolayer graphene.

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