

Abstract Submitted
for the MAR11 Meeting of
The American Physical Society

Probing plasmons in graphene LONG JU, BAISONG GENG, JASON HORNG, CAGLAR GIRIT, Dept of Physics, University of California at Berkeley, MICHAEL MARTIN, ZHAO HAO, HANS BECHTEL, Advanced Light Source Division, Lawrence Berkeley National Laboratory, XIAOGAN LIANG, Molecular Foundry, Lawrence Berkeley National Laboratory, ALEX ZETTL, FENG WANG, Dept of Physics, University of California at Berkeley — Plasmon behaviour in graphene is important for the understanding of many body interaction of 2D Dirac fermions. It also provides physical background for potential graphene applications in optoelectronics and ultrahigh speed THz electronics. In this talk, we will describe our study of plasmon behaviour in graphene using far-infrared spectroscopy and compare our experimental results to theoretical predictions.

Long Ju
Dept of Physics, University of California at Berkeley

Date submitted: 28 Nov 2010

Electronic form version 1.4