

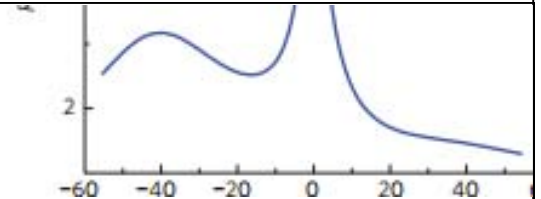
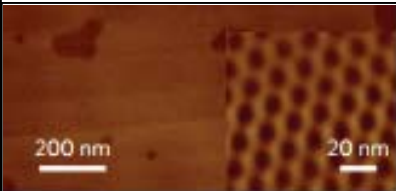
MONDAY, APRIL 13TH



Dr. Feng Wang
University of California, Berkeley

4:00 PM in TH 411
Refreshments served at
3:50 PM

Tailoring Light-Matter Interactions in Grapheme



Abstract:

Graphene, a single layer of carbon atoms, exhibits novel two-dimensional electronic behavior characterized by massless Dirac electrons. In particular, its physical properties can be strongly modified by electrical gating and layer-layer interactions. Optical spectroscopy provides a powerful tool in study these phenomena in graphene. In this talk, I will show describe gate dependent optical transitions monolayer graphene and a continuously tunable bandgap in bilayer graphene. I will further show that the gapped bilayer graphene corresponds to a massive Dirac electron system that fea-



SAN FRANCISCO
STATE UNIVERSITY

Department of
Physics & Astronomy