

Tunable Optical Properties of Graphene

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Feng Wang
Department of Physics, U.C. Berkeley

Graphene, a single layer of carbon atoms, exhibits novel two-dimensional electronic behavior. Optical spectroscopy provides a powerful toolkit study graphene physics. In this talk, I will show how we can use infrared spectroscopy to probe gate-dependent interband transitions as well as intraband transitions. I will also discuss how we can use electrical gating to control inelastic light scattering processes in graphene.

Primary author: WANG, Feng (UC Berkeley)

Presenter: WANG, Feng (UC Berkeley)

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