

PLASMON-ENHANCED RAMAN SCATTERING

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Plasmons are the collective excitations of free electrons. They focus light into nanoscale volumes, increasing electromagnetic fields by orders of magnitude. Plasmonic enhancement in light scattering (SERS) leads to a 10^8 increase in the cross section. I will present Raman measurements on graphene and nanotubes coupled to nanoplasmons. The enhancement will be described as a higher-order Raman process with striking consequences for our understanding of plasmon-matter interaction at the nanoscale.

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2:00 PM

CFEL
SEMINAR ROOMS I-III

