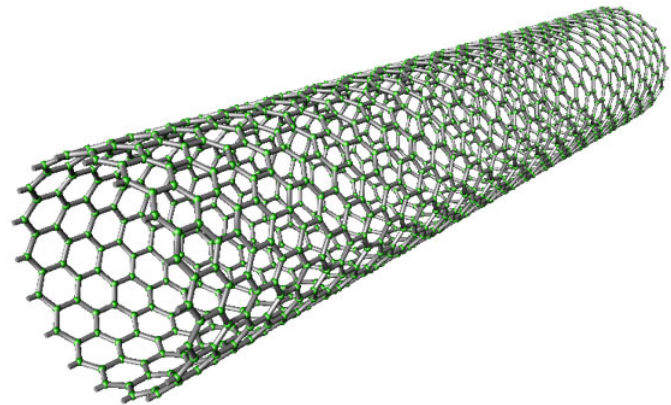
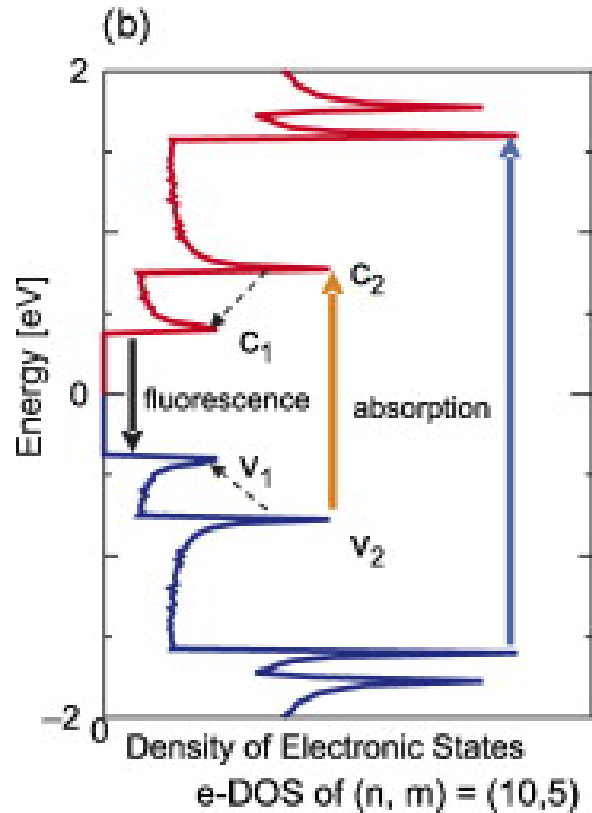


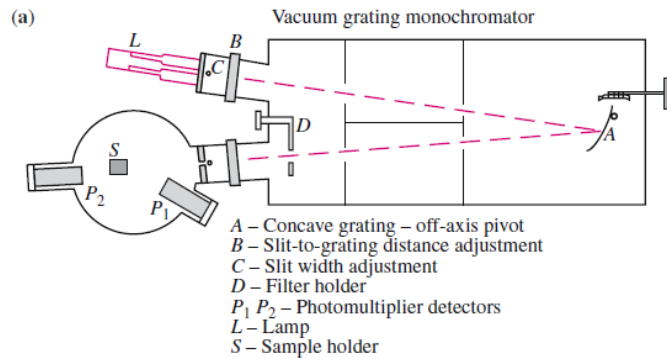


# DOS of nanotubes

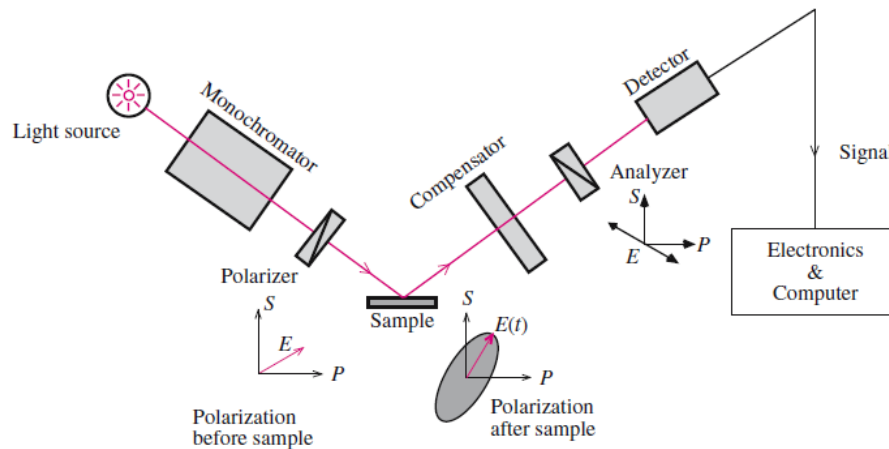


Density of states is NOT a good approximation for absorption.  
Above picture is popular, but incorrect!

# Dielectric function: Experiments

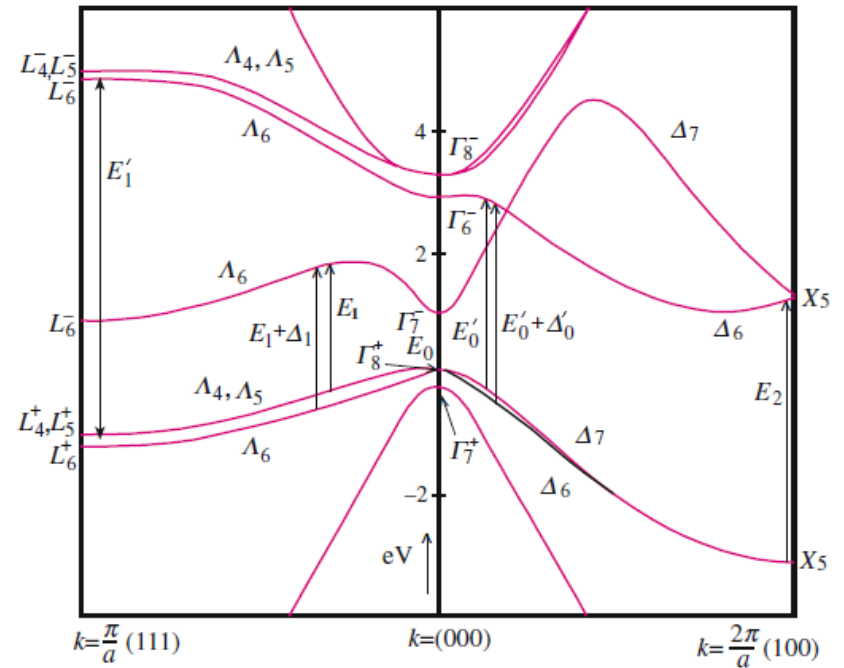
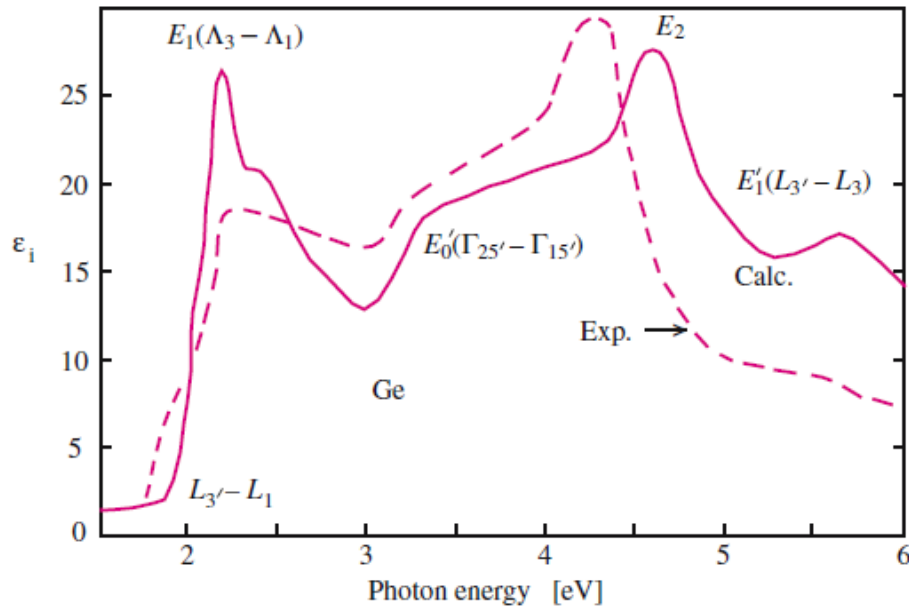


Philipp & Ehrenreich  
Reflectance (and absorbance) measurements

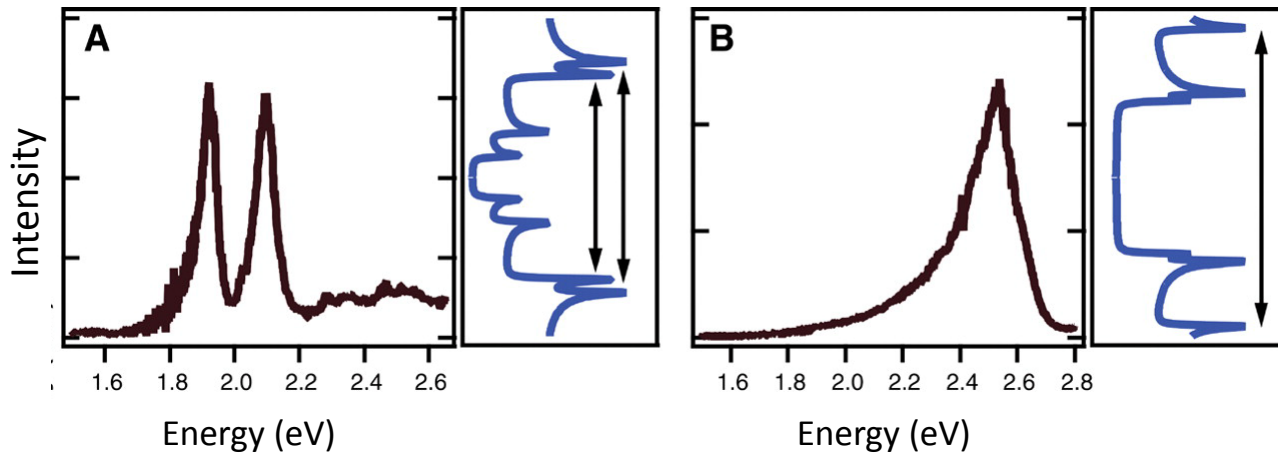
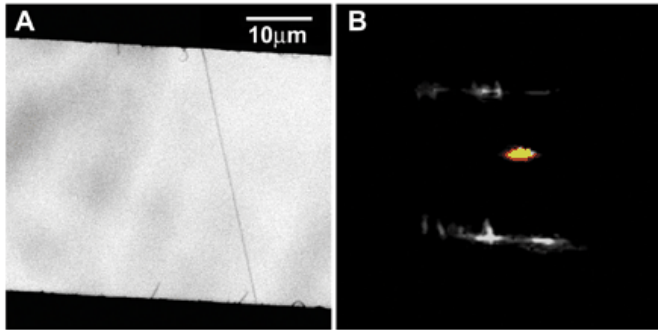


Ellipsometer  
Dielectric function directly

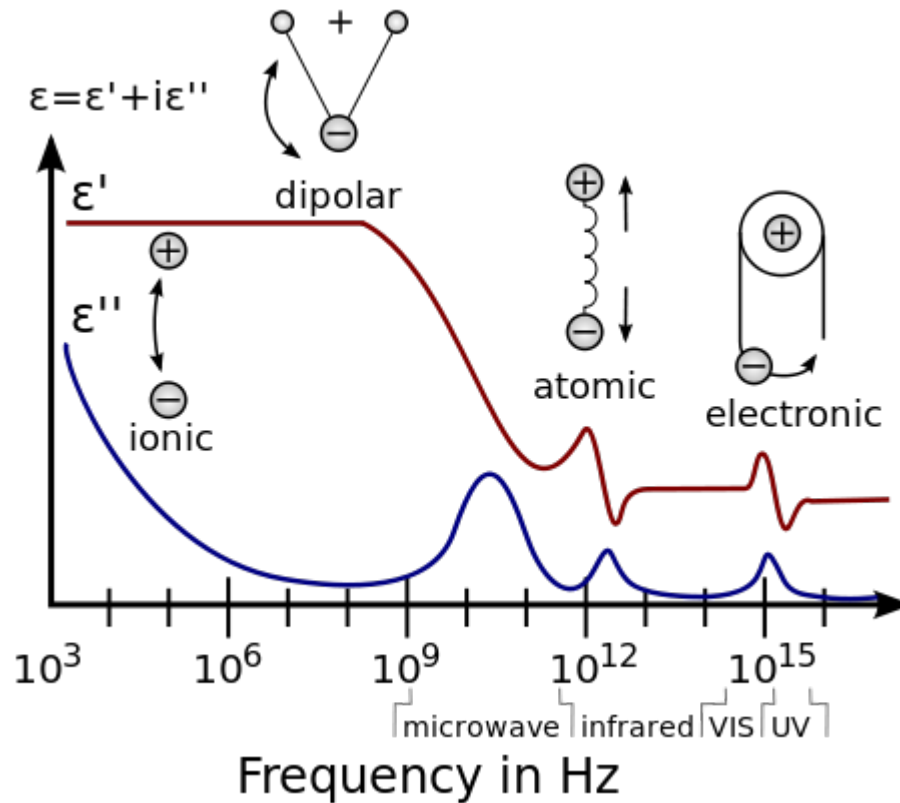
# Dielectric function of Ge



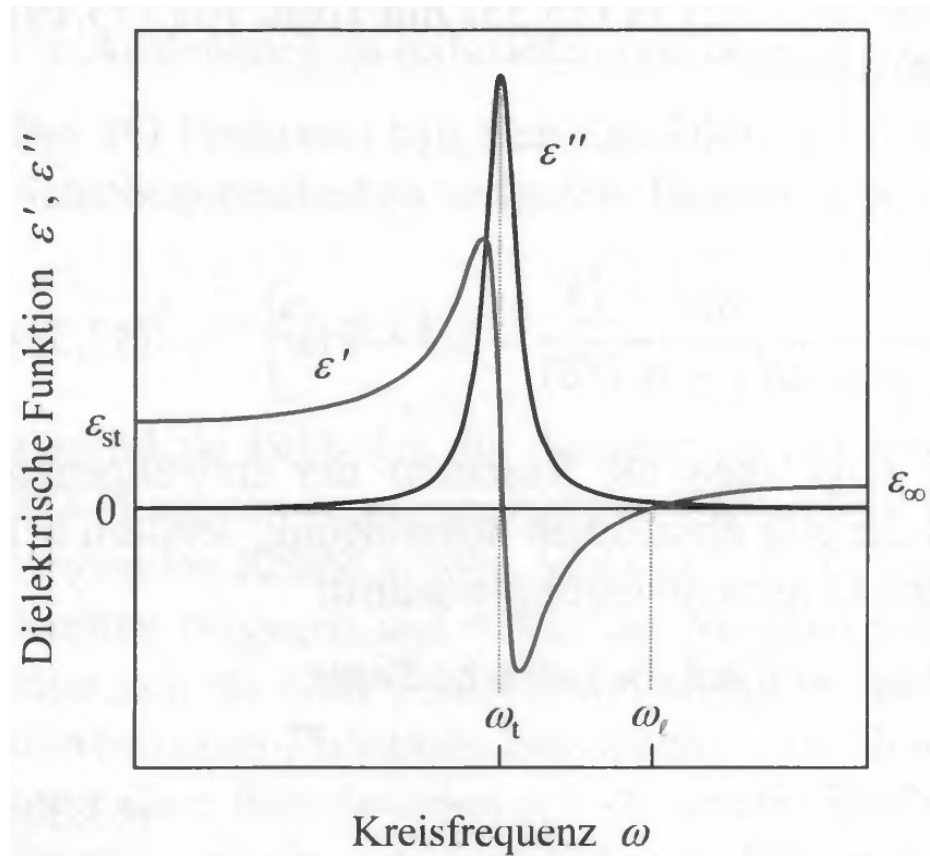
# Rayleigh scattering nanotubes



# Dielectric function



# Harmonic oscillator



# Reflectivity

