Contacts in nano-electronics

As the dimension shrinks to nanometer scale, contacts between metal electrodes and molecules play a much more important role than those in bulk. Effects of "surface states" could spread through the whole nano-electronics system. Here we discuss (i) How to form electric contacts to single molecules, and (ii) How contacts between single-walled carbon nanotubes (SWNTs) and metal electrodes control the properties of carbon nanotube field effect transistors (NT-FETs).

Monday
March 15, 2004
Starts at 12:15 PM
Coffee at 12:00 PM
Physics Conference Room, SB B326