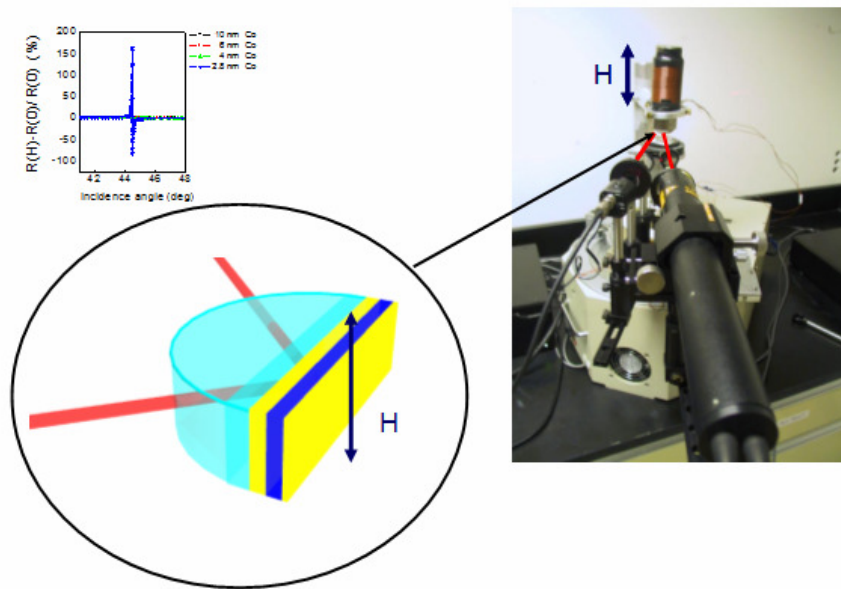


AMO Seminar



Friday, October 17, 2008

2:00 pm

Physics conference room (Small Hall 123)

New developments in magneto-plasmonic devices

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Surface plasmons are charge density oscillations at the boundary between a metal and a dielectric material that gives rise to highly confined fields at the interface. Some of the exciting applications of surface plasmons are biosensors and plasmonics. A new kind of sensors combining plasmonic and magneto-optical (MO) properties, i.e. magneto-plasmonic detectors, will be presented. In particular, two systems are studied to increase the sensitivity of these detectors: Au-Co-Au trilayers and Au-Co nanocomposites. Finally, grating based magneto-plasmonic sensors will be introduced.