AMO Seminar

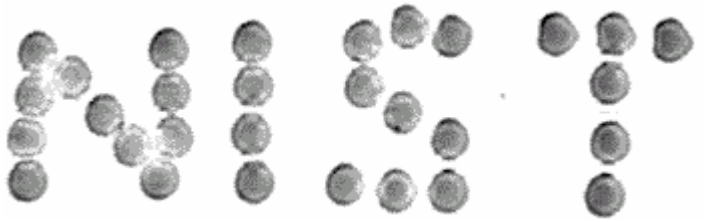

Image of several 4.5 μm diameter, latex microspheres arranged using optical tweezers.

Friday, March 28, 2008
4:00 pm
Physics conference room (Small Hall 123)

Optical Trapping with evanescent fields

Dr. Carlos Lopez-Mariscal
Guest Researcher, NIST

Several different techniques for optical confinement and manipulation have successfully provided with an extended toolbox for the handling of multiple delicate micron-sized objects. For most single-beam techniques, however, diffraction sets the limit for the smallest objects that can be effectively manipulated. In this talk, I will describe an approach to massive manipulation of sub-micron sized particles based on the interference of multiple optical beams in an evanescent field geometry.