

# Colloquium Announcement

## Excitons in carbon nanotubes: photophysics of one-dimensional solids

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Broad interest in the optical properties of nanotubes, nanorods, and nanowires is born out of their characteristic one-dimensional structure. The consequences of one-dimensionality and the distinct behavior of physical observables in confined systems can be studied through their electronic-, transport-, optical- and magnetic-properties. Charge screening with its profound influence on electronic structure, electronic transport and optical spectra of nanoscale systems, for example, depends strongly on dimensionality as well as on the environment. Here I will discuss exciton energetics and dynamics in semiconducting single-wall carbon nanotubes which provide us with a unique perspective on the peculiar photophysics of one-dimensional solids.

***Sponsored by UAB Department of Physics***

Thursday, April 5, 2007

12:30 p.m. – 1:50 p.m.

Campbell Hall 274

*Refreshments served at 12:00 p.m. in CH 361*

1300 University Boulevard

For further information, please contact the  
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