

Jeudi 6 avril 2006 - 14h30

(salle 221, Département de Physique, INSA)

Résumé :

ZnO Nanorods

Research on the large-gap semiconductor ZnO has recently had a an impressive revival. This is mainly due to advanced growth techniques, which allow e.g. the fabrication of heterostructures and a variety of nanostructures. This makes ZnO an interesting material for optoelectronic applications in the blue and UV spectral region.

I will focus in my talk on the optical properties of ZnO nanorod arrays.

Exciton dynamics and stimulated emission will be discussed. The latter are influenced by the geometry of the rods which act like waveguides and resonators.

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