



GEMaC

Groupe d'Étude
de la Matière Condensée

FLUORESCENCE PROPERTIES OF COLLOIDAL SEMICONDUCTOR QUANTUM WELLS

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Bâtiment Fermat

Salle F-4109

After an introduction about the general work of the group Nanostructures and Optics at INSP, I will present the methods which we developed for characterizing the orientation and optical dipole contributions to the fluorescence of a single nano-emitter. These strategies were applied to a variety of semiconductor colloidal nanostructures :

nanocrystals, nanorods, nanoplatelets (quantum wells)... In our most recent work, we considered self-assembled chains of nanoplatelets and evidenced various effects of coupling between platelets.