

SEMINAIRES DE LA BRANCHE PHYSIQUE

ONERA



Bâtiment S - Fort de Palaiseau - 91120 Palaiseau

Salle de Conférence du LAERTE

Mardi 24 Aout 2010 à 11H00

Semiconductor Quantum Infrared-Terahertz Devices

Prof. H. C. Liu

National Research Council of Canada

Semiconductor quantum structures have not only enabled discoveries of new phenomena but also realizations of novel photonic devices. In this talk I will introduce those devices that I have been working on and discuss my future plans. The first one is the, by now, well-established quantum-well infrared photodetector (QWIP). Here I will discuss its potential for applications in laboratories and environmental sensing in the infrared (IR) spectrum, and also our recent work on THz QWIPs. Quantum cascade laser (QCL) is another emerging and promising device. I will review the current QCL status and our record-holding three-well resonant-phonon design for the terahertz (THz) region. Together with QWIPs, QCLs form a very promising technology base for sensing.

Pour tout renseignement : haidar@onera.fr

Présentation d'une pièce d'identité requise au poste de garde

Autorisation à demander 2 semaines à l'avance pour toute personne étrangère à la CEE pour sa première entrée