ISTITUTO DI MATEMATICA APPLICATA E TECNOLOGIE INFORMATICHE (CNR)
DIPARTIMENTO DI MATEMATICA "FELICE CASORATI"
via Ferrata, 1 – 27100 Pavia (Italia)

Seminario di Matematica Applicata

Giovedì 27 Novembre 2003 alle ore 15 a Pavia, nella Sala Conferenze dell'IMATI-CNR (ex IAN), il

Prof. Peter A. Markowich
(Institute for Mathematics, University of Vienna)

terrà la conferenza:

On Highly Oscillatory Partial Differential Equations

Abstract. Partial differential equations with highly oscillatory solutions occur in many areas of science like quantum mechanics and acoustics, with important spin-offs to semiconductors, nanotechnology and low-temperature physics. These equations pose a great challenge to mathematical and numerical analysis. Recently a new mathematical technique has been developed to treat highly oscillatory PDEs, namely Wigner transforms. They allow deep new insights into high-frequency asymptotics. The state-of-the-art is reported in the lecture, with emphasis on applications like quantum semiconductor devices and Bose-Einstein condensation.

La S.V. è cordialmente invitata.

☕ Dopo la conferenza sarà organizzato un breve rinfresco ☕