Institut d'Analyse et Calcul Scientifique (IACS)
Section Mathématiques

SEMINAIRE D'ANALYSE

➢ *VENDREDI 7 novembre 2008 à 16h.00 à la salle MA A1 12*

  *Monsieur **Erik WAHLEN** (Lund University, Suède)* donnera une conférence sur le thème:

"EXISTENCE AND STABILITY OF SOLITARY WATER WAVES WITH VORTICITY"

"I will present a new Hamiltonian formulation for water waves with constant vorticity, which is similar to Zakharov's formulation in the irrotational setting. I will then show how this formulation can be used to construct solitary capillary-gravity waves using a variational approach known as the reduced energy-momentum method. The method, which was previously used in the context of irrotational flow, gives a form of stability as a side effect. The presence of vorticity requires some non-trivial extensions. This is joint work with Mark Groves (Loughborough University)."

Lausanne, septembre 2008
BB/BD

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