



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

SEMINAIRE D'ANALYSE

➤ ***VENDREDI 09 octobre 2009 à 16h15 à la salle MA A330***

Monsieur Antonin CHAMBOLLE (Ecole Polytechnique, Paris, France) donnera une conférence sur le thème:

**"A VARIATIONAL MODEL FOR THE EQUILIBRIUM OF
EPITAXIALLY STRAINED FILMS"**

I will discuss a simple variational model for the equilibrium of hetero-epitaxially grown crystals on a substrate. In 2D, a simple variational model which mixes a volume and an interface energy can be studied and numerically implemented, as we had proposed in a paper with Eric Bonnetier (U. Grenoble). In higher dimension, the mathematical framework is more complex but we can provide (at least in the scalar setting, or nonlinear setting) a representation which also can be minimized. This is a joint work with Margherita Solci (U. Sassari).

Lausanne, le 30 septembre 2009
BD/BB/VL

Les séminaires qui ont lieu à la Section de Mathématiques sont annoncés sur Internet à l'adresse WWW
([http:// www.epfl.ch/cgi-bin/memento/memento](http://www.epfl.ch/cgi-bin/memento/memento))