



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

SEMINAIRE D'ANALYSE

➤ ***VENDREDI 16 mai 2008 à 16h.15 à la salle MA 12***

Monsieur Michael STRUWE (ETH Zürich) donnera une conférence sur le thème:

**"UNIQUENESS AND STABILITY FOR SUPERCRITICAL WAVE
AND SCHRÖDINGER EQUATIONS"**

"On uniqueness and stability for supercritical nonlinear wave and Schrödinger equations:

We show that smooth solutions to nonlinear wave and Schrödinger equations involving coercive nonlinearities of polynomial type with arbitrarily strong growth are unique among distribution solutions satisfying the energy inequality.

The result also yields the stability of classical solutions in the energy norm and may be used to show convergence of the approximate solutions obtained by standard approximation schemes to the true solution in this norm."

Lausanne, le 13 mai 2008
BD