ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

B. Buffoni – B. Dacorogna - Section Mathématiques

SEMINAIRE D'ANALYSE

- ***VENDREDI 17 MAI 2013 à 15h15 - salle MA A112***

Docteur ***NAHAS JOULES*** *(*EPFL, Suisse) donnera une conférence sur le thème:

FINITE ENERGY BLOW UP FOR CRITICAL WAVE EQUATIONS ON CURVED BACKGROUNDS

ABSTRACT. We use the method of Krieger, Schlag, and Tataru to construct a family of blow-up solutions on a Riemannian manifold $(\mathcal{M}, g)$ with finite energy norm to the equation

$$\partial_t^2 u - \Delta_g u = |u|^4 u.$$

This family has a continuous rate of blow up, but In contrast to the case where g is the Minkowski metric, the method can only obtain blow up rates that are bounded above. This is joint work with S. Shashahani.

Lausanne, le 8 mai 2013
BD/VL

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Les séminaires qui ont lieu à la Section de Mathématiques sont annoncés sur Internet
http://memento.epfl.ch/maths/