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Section Mathématiques

SEMINAIRE D'ANALYSE

➤ **VENDREDI 22 MAI 2015 à 15h15 - salle MA A331**

Professeur **ANDREA MALCHIODI** (SNS Pisa, Italie) donnera une conférence sur le thème:

«Uniformization of surfaces with conical singularities»

We consider a class of singular Liouville equations which arise from the problem of prescribing the Gaussian curvature of a surface imposing a given conical structure at a finite number of points (as well as from models in Chern-Simons theory). The problem is variational, and differently from the "regular" case the Euler-Lagrange functional might be unbounded from below. We will look for critical points of saddle type using a combination of improved geometric inequalities and topological methods.

This is joint work with D.Bartolucci, A.Carlotto, F.De Marchis and D.Ruiz.

Lausanne, le 18 mai 2015
BD/MT/vl

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