

SEMINAIRE D'ANALYSE

➤ **VENDREDI 22 Février 2013 à 15h15 - salle MA A112**

Madame **LAURA KELLER** (Universität Münster, Allemagne) une conférence sur le thème:

«Geometric problems with hidden antisymmetry »

We will discuss a class of geometric problems which include harmonic maps, prescribed mean curvature or Willmore surfaces and whose common feature is the presence of a hidden antisymmetry.

This property becomes particularly important in the context of regularity issues since it allows us to use a result of Wente. This result asserts higher regularity for the linear model case of an equation enjoying the antisymmetry property mentioned above.

In our talk we will explain how the additional structure of antisymmetry can be exploited and how Wente's result comes into the game and we will give some comments on it.

Moreover, we will present a possible generalization of Wente's theorem and conclude by a brief presentation of a recent result about Willmore surfaces.

Lausanne, le 15 février 2013

BD/VL

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