

Séminaire d'algèbre, topologie et géométrie

Jeudi 18 juin à 14h

Salle I

**Benjamin McKay**

Cork University

*Bending metal sheets, Riemann surfaces and integrable systems*

When you bend a metal sheet, without stretching, it deforms through isometric immersions of a Riemannian metric. Problem : for which surfaces is the differential equation of isometric immersion an integrable system ? We find the first examples. We use ideas of Darboux relating complex geometry and integrable systems. Joint work with Jeanne Clelland, Tom Ivey and Peter Vassiliou.