



SCUOLA  
NORMALE  
SUPERIORE

## SEMINARIO DI MATEMATICA

Martedì 14 luglio 2015  
ore 16:00

Scuola Normale Superiore  
Pisa  
Aula Bianchi Scienze

**Luca Martinazzi**  
*University of Basel*

Terrà un seminario dal titolo:

### **“The fractional Liouville equation in dimension 1 - Compactness and quantization”**

#### **Abstract:**

*In this talk I will introduce the fractional Liouville equation on the circle  $S^1$  and its geometric interpretation in terms of conformal immersions of the unit disk into the complex plane. Using this interpretation we can show that the solution of the fractional Liouville equation have very precise compactness properties (including quantization) with a clear geometric counterpart. I will also compare these result with analogue ones for the classical Liouville equation in dimension 2, used to prescribe the Gaussian curvature.*

*This is a joint work with Tristan Riviere and Francesca Da Lio.*

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze Matematiche e Naturali