



SCUOLA  
NORMALE  
SUPERIORE

## SEMINARIO MATEMATICA

mercoledì 18 maggio 2016  
ore 16:00

Scuola Normale Superiore  
Pisa  
Aula Tonelli

***Matthew Gursky***

*University Notre Dame, Indiana, USA*

Terrà un seminario dal titolo:

# “A formal Riemannian structure on the space of conformal metrics and some applications”

***Abstract:***

*In this talk I will present some results from project with J. Streets (UC-Irvine), in which we define a formal Riemannian metric on the set of metrics in a conformal class with positive (or negative) curvature. In the case of surfaces, this metric has many interesting formal properties; for example the curvature is nonpositive and the Liouville energy is geodesically convex.*

*I will then talk about extensions to higher dimensions, especially 4-d, in which this construction has some interesting applications to the fully nonlinear Yamabe problem.*

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze  
Matematiche e Naturali