



SCUOLA  
NORMALE  
SUPERIORE

## SEMINARIO DI GEOMETRIA

**Venerdì 17 maggio 2019**  
ore 14:00

Scuola Normale Superiore  
Pisa  
Aula Bianchi Lettere

**Marco Radeschi**  
(*Università Notre Dame*)

Terrà un seminario dal titolo:

### **“Minimal Hypersurfaces in compact symmetric spaces”**

**Abstract:**

A conjecture of Marquez-Neves-Schoen says that for every embedded minimal hypersurface  $M$  in a manifold of positive Ricci curvature, the first Betti number of  $M$  is bounded above linearly by the index of  $M$ . We will show that for every compact symmetric space this result holds, up to replacing the index of  $M$  with its extended index (index plus nullity). Moreover, we provide families of examples for which the actual conjecture holds for an open set of metrics. These results are joint works with R. Mendes and C. Gorodski.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze