



SCUOLA  
NORMALE  
SUPERIORE

## SEMINARIO DI MATEMATICA

**Giovedì 30 gennaio 2020**  
ore 14:00

Scuola Normale Superiore  
Pisa  
Sala Conferenze Collegio Puteano

**Christian Olivera**  
(University of Campinas, Brasil)

Terrà un seminario dal titolo:

### **“ Stochastic 2D Navier-Stokes equations with fractional noise”**

***Abstract:***

We consider the Navier-Stokes equations on the 2D torus, with a stochastic forcing term which is a cylindrical fractional Wiener noise of Hurst parameter  $H$ . When  $H = \frac{1}{2}$ , there are results on global existence of a unique strong solution. We consider the case of a fractional Brownian motion, proving a local existence and uniqueness result when  $\frac{7}{16} < H < \frac{1}{2}$  and a global existence and uniqueness result when  $\frac{1}{2} < H < 1$ .

This is based on a joint work with B. Ferrario.

Tutti gli interessati sono invitati a partecipare.  
Classe di Scienze