

INSTITUTUL DE MATEMATICA “SIMION STOILow” AL ACADEMIEI ROMANE  
cu sprijinul BITDEFENDER

**Conferința lunară**

# *What is the fractional Laplacian?*

## **Enrico Valdinoci**

(Università degli Studi di Milano, Italy)

Conferința va avea loc **Miercuri 18 aprilie 2018, ora 13:00**

la sediul **IMAR**, amfiteatrul “Miron Nicolescu”, parter

**Abstract:** We will present an elementary approach to some nonlocal equations modeled on the fractional Laplacian. Similarities and differences with respect to classical partial differential equations will be discussed. As concrete applications, we will also discuss some recent trends related to nonlocal minimal surfaces, long-range phase transitions and atom dislocation models in crystals.