



## **COLLOQUIUM SERIES: PDE - Mathematical equations for physical models**

**XAVIER ROS**

July 15, 2024

12:00 to 13:00

ICFO Auditorium

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### **BIO**

Xavier Ros Oton is ICREA Professor at the Universitat de Barcelona (UB) where he heads the Research Group on Partial Differential Equations. He is the principal researcher of an ERC Starting Grant (2019-2024) and will soon begin an ERC Consolidator Grant (2024-2029). Formerly he was a lecturer at the University of Zurich (Switzerland) and an R. H. Bing instructor at the University of Texas at Austin (United States). His work focuses on the study of elliptic partial differential equations and variational theory. He has received several awards for young mathematicians in Spain including the National Research Prize for young researchers in Mathematics and Computer Science in 2023, as well as the Scientific Research Award from the Fundacion Princesa de Girona in 2019 and the Stampacchia Gold Medal in

2021, an international prize awarded every three years in recognition of outstanding contributions to the Calculus of Variations. In 2022, he was elected as an 'Academico Correspondiente' of the Spanish Royal Academy of Sciences.

### **ABSTRACT**

Partial Differential Equations (PDE) have become a universal language to describe natural phenomena from a mathematical and physical standpoint. However, from the mathematical point of view, many basic questions remain unsolved. In this talk we will give an introduction to PDE and their interactions with other sciences.

**Host:** ICREA Prof. at ICFO Antonio Acin

**Hosted by:** Prof. Dr. Antonio Acin