



Seminari Informal
de Matemàtiques de Barcelona



UNIVERSITAT DE
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B:KC Barcelona
Knowledge
Campus

Seminari Informal de Matemàtiques de Barcelona

Speaker: Damià Torres.
University: Universitat de Barcelona.

Date: Wednesday, 20th of May.
Schedule: 12:00, *virtual coffee break (bring your coffee)*; 12:20, talk.
Place: Zoom, *A link will be sent via email, please sign up in our web.*
Language: English.

Title: Elliptic PDE 2: Existence and uniqueness of solutions.

Abstract: There are two main approaches to the problem of existence and uniqueness of the solutions. The *energy methods*, related to the variational formulation and the *viscosity methods*, based on a more geometric approach. We will discuss both for the Laplace equation, and then comment on how an extension to general elliptic operators is possible. Additionally, we will see how the same methods can be adapted to the obstacle problem.

About us: The SIMBa is a young seminar organized by students of the Faculties of Mathematics and Computer Science of Barcelona. It is aimed at doctoral, master's degree students and, also, for those who are in the last grade courses. Our goal is that each one can make known the research which they are doing, as well as, to get new knowledge of other areas of mathematics than his own..

For more information, visit at www.ub.edu/simba/en/.

If you have any doubt or comment, do not hesitate to contact us by sending an email to seminari.simba@ub.edu.