Seminari Informal de Matemàtiques de Barcelona

Speaker: Clara Torres Latorre.
University: Universitat de Barcelona.

Date: Wednesday, May 20th, 2020.
Schedule: 12:00, *virtual coffee break*; 12:20, talk.
Place: Zoom (the link will be posted on our website).
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: *SIMBa* is a mathematics seminar organized by graduate students in the Barcelona area. It is aimed towards graduate and last course undergraduate students. Our goals are divulging the knowledge from different branches of mathematics for those interested and promote networking between the attendants.

This seminar is backed by the Faculty of Mathematics and Computer Science at Universitat de Barcelona, Faculty of Mathematics and Statistics at Universitat Politècnica de Catalunya, the Department of Mathematics from Univesitat Autònoma de Barcelona, CRM, IMUB and BGSMath.

Fore 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@gmail.com*.