PhD POSITION IN MATHEMATICAL ANALYSIS AT THE ICMAT FOR THE INPhINIT PROGRAMME

**Job Position title:** PhD in mathematical analysis

**Research project/ group description**

Mathematical Analysis is a very active field of research that places itself in a fundamental position within the mathematical sciences. Mathematical Analysis has many different branches and turns out to be fundamental in the understanding of several problems in harmonic analysis, partial differential equations, geometric group theory, functional analysis and operator algebra, geometric measure theory, differential geometry and probability. The ICMAT has several researchers working in this line in a wide spectrum of subjects. Among them, we emphasize the researchers working in harmonic analysis. This group is very active and has a wide international recognition, with three ERC projects in different aspects of harmonic analysis. Many other branches of Mathematical Analysis are also very well-represented in our group, as it becomes clear from the website of our group. Below we indicate the research directions of those subgroups which are inclined to host PhD Students at this moment.

- Harmonic analysis, PDEs and geometric measure theory
- Operators on Hilbert spaces: Cyclicity and invariant subspaces
- Spectral theory, nonselfadjoint operators, functional calculus
- Noncommutative harmonic analysis and geometric group theory

**Job position description**

The student will be involved in work related to the proposed research topic and expected to participate in the group activities such as the organization of seminars and conferences. He or she will also have regular meetings with the main supervisor of the project.

**Group Leader:** Dr. Javier Parcet Hernandez

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Group on Mathematical Analysis Website: [https://www.icmat.es/research/groups/group1](https://www.icmat.es/research/groups/group1)

**Links to the INPhINIT 2020 Incoming Open Call:**


Application website: [https://www.lacaixafellowships.org/index.aspx](https://www.lacaixafellowships.org/index.aspx)

Programme rules [here](https://www.lacaixafellowships.org/index.aspx).

PhD position finder: [https://hosts.lacaixafellowships.org/finder](https://hosts.lacaixafellowships.org/finder)