



Seminario Rubio de Francia

Conferencia

por

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Título:

How certain metric invariants shape Banach spaces and algebras

Resumen: We shall review a series of results asserting that some concrete subsets of certain Banach spaces and algebras, when equipped with the metric induced by the norm, define metric spaces which “shape” the whole underlying Banach space uniquely, that is, they allow us to determine the whole Banach space or even the algebra structure. Among these metric invariants we can, for example, find the unit sphere of a Banach space, the sets of invertible elements in certain unital Banach algebras, the set of unitary elements in a von Neumann algebra, and the positive sphere of the space of operators on a complex Hilbert space, a von Neumann algebra or a JBW*-algebra, among other natural examples.

El seminario se podrá seguir en directo a través del enlace:

<https://youtube.com/live/UYq0pIFIQhY>

Fecha: Jueves, 16 de octubre de 2025.

Hora: 12:10 horas.

Lugar: seminario Rubio de Francia, edificio de Matemáticas, primera planta.

Web: <http://anamat.unizar.es/seminario.html>