

Conferencia

Santaló 2025

La Facultad de Ciencias Matemáticas y la Revista Matemática Complutense organizan anualmente la Conferencia Santaló, en memoria de Luis Santaló (1911-2001), doctor por la Universidad Complutense de Madrid. La conferencia es impartida cada año por un/a profesor/a de reconocido prestigio. En este año tenemos el placer de contar con:

Francisco Santos Leal

Universidad de Cantabria, España

*Polytopes: A bridge between
combinatorics, algebraic geometry
and symplectic geometry*

In this talk, we will give a brief introduction to polytope theory, emphasizing its connections to toric algebraic and symplectic geometry.

These connections arise from the interaction of a polytope, which must have integer or at least rational coordinates, with an ambient lattice whose points play the role of monomials and/or characters.

Certain particular types of polytopes have special relevance in these connections. The "empty simplices" correspond to finite quotient singularities, which appear in the so-called minimal model program. Smooth polytopes, also known as Delzant polytopes, are the moment polytopes of toric symplectic manifolds.

Lunes, 29 de septiembre de 2025, 13:00 h

Aula Miguel de Guzmán

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