

Seminario de análisis matemático y aplicaciones
Analisi matematikoa eta aplikazioak mintegia

Potential operators in the sphere

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ABSTRACT: Potential operators in the Euclidean case, fractional integrals and fractional powers of the Laplacian, have been widely studied. The definition of the corresponding operators on the sphere can be done through the expansion in spherical harmonics. In this talk, we present the spherical version of some well-known results in the classical setting. The analysis of these operators is reduced to study the analogous ones for expansions in ultraspherical polynomials.

LUGAR / LEKUA:

Sala de seminarios de la sección de matemáticas
Matematika ataleko mintegi gela

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