Seminario de Análisis y Aplicaciones

Viernes, 21 de febrero de 2014

10:30 h., Aula Naranja (ICMat, Campus de Cantoblanco)

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Schur and Fourier multipliers of an amenable group acting on non-commutative L^p-spaces

Resumen:

Fourier and Schur multipliers of groups are indispensible in the study of approximation properties and various problems involving non-commutative harmonic analysis. In this talk we introduce L^p-Fourier multipliers for arbitrary groups and study the close relation between such a multiplier and its corresponding Schur multiplier. In particular, we show how to generalize a result by Neuwirth and Ricard stating that for a discrete amenable group, the completely bounded norm of a L^p-Fourier multiplier equals the completely bounded norm of its associated Schur multiplier. We will relate our results to approximation properties of groups and non-commutative L^p-spaces.

This is joint work with Mikael de la Salle.

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