

SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 18 de enero de 2013

11:30 h., Módulo 17 (antiguo C-XV) - Aula 520 (Depto. Matemáticas UAM)

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Isotropic shearlet analogs for $L^2(\mathbb{R}^k)$
and localization operators

Resumen:

In this talk a multi-dimensional transformation which contains directional components and which generalizes certain qualities of shearlet transforms will be presented. This is achieved by means of exploiting representations of the extended metaplectic group, and the resulting system differs from that of Dahlke and Teschke.

We study the properties of this new family of isotropic shearlet transformations and of their associated Lie groups, including structural results of the transform spaces. This family yields localization operators which have desirable properties. The Wick symbols for these operators are associated with a well-defined calculus.