

Dimecres 13 d'octubre del 2010, 15:00h

Aula T2 de la Facultat de Matemàtiques de la U.B.

Beurling-Landau densities on compact manifolds

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ABSTRACT: Given a compact Riemannian manifold, we consider the space of L^2 generated by eigenfunctions (of the Laplacian) of eigenvalue less than $L \geq 1$. This space behaves like a space of polynomials and we have an analogy with the Paley-Wiener spaces. We will give necessary conditions for sampling and interpolation in terms of the Beurling-Landau densities. This is a joint work with J. Ortega-Cerdà.