

Dilluns 17 de gener del 2011, 16:00h

Aula Petita del C.R.M.

On spherical designs

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ABSTRACT: We will discuss our recent results on existent bound for minimal number of points in a spherical t -design. A proof of the conjecture of Korevaar and Meyers will be outlined. We will also show relations of spherical designs to other optimal configurations on the sphere and to the exceptional algebraic and combinatorial structures.