SEMINARIO DI MATEMATICA

Lunedì 23 gennaio 2012
Ore 16.00

Scuola Normale Superiore
Pisa
Aula 2

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University of Muscat

Terrà un seminario dal titolo:

"The smoothness of convolutions of zonal measures on symmetric spaces"

Abstract:

Suppose G is a compact, simple Lie group with Cartan involution \theta and K is the compact subgroup of G fixed by \theta. Then G/K is a compact symmetric space. Dunkl proved that the convolution of the surface measure of the sphere in R^n with itself is absolutely continuous with respect to Lebesgue measure on R^n. Generalizing this, Ragozin proved that if $\mu_1,...,\mu_{dim(G/K)}$ are any K-bi-invariant continuous measures on G, then $\mu_1*....*\mu_{dim(G/K)}$ is absolutely continuous with respect to the Haar measure on G. In this talk, it will shown that if r=rank(G/K), and $\mu\_1,...,\mu_{2r+1}$ are any K-bi-invariant continuous measures on G, then $\mu_1*...*\mu_{2r+1}$ is absolutely continuous with respect to the Haar measure on G. I will also talk on some related results about noncompact symmetric space and about other K-invariant measures. This is joint work with Kathryn Hare.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze