

Lie Group and Representation Theory Seminar

Date: November 11 (Fri), 2005, 10:30–11:30

Place: RIMS, Kyoto University : Room 402

Speaker: Simon Gindikin (Rutgers)

Title: Integral geometry and representations

Abstract:

The old project of Gelfand was to obtain the harmonic analysis on symmetric and other homogeneous spaces using the horospherical transform. The realization of this program had an enormous obstruction since the initial version of the horospherical transform annihilates discrete series of representations. Several years ago I suggested a modified version — horospherical Cauchy transform — which is nontrivial at least for some discrete series.

I want to consider several examples, starting of $SL(2, R)$, and to discuss how realistic looks today this Gelfand's project.

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