

Lie Group and Representation Theory Seminar

Date: January 9 (Fri), 2004, 16:00–17:00 (1)

January 13 (Tue), 2004, 16:00–17:00 (2)

Place: RIMS 402

Speaker: Andreas Nilsson

(Royal Institute of Technology, Stockholm, Sweden)

Title(1): Some Theorems of deLeeuw on multipliers

Abstract:

To check L^p -boundedness of multipliers it is sometimes useful to be able to restrict to simpler situations. deLeeuw has proved that if we restrict an L^p -bounded multiplier operator to a linear subspace then the resulting multiplier operator will also be bounded. I will talk about the proof of this and some related results. In my second talk I will give some applications to this.

Title(2): Investigation of L^p -boundedness for certain multipliers

Abstract:

Together with professor Kobayashi, I have been trying to characterize multipliers by group actions. To begin with we were only concerned with the characterization and hence only asked for L^2 -boundedness. But it is natural to ask which of the multipliers that are bounded on L^p as well. The tools used include deLeeuw's theorem on restriction to affine subspaces and Fefferman's ball multiplier theorem.

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