Lie Group and Representation Theory Seminar

Date: October 11 (Tue), 2005, 16:30–17:30
Place: RIMS, Kyoto University : Room 402
Speaker: Andreas Nilsson (RIMS)
Title: Characterization of discrete Riesz transforms

Abstract: The Riesz transforms in R^n have been characterized to be the only translation invariant linear operators satisfying some condtion of relative invariance under the conformal group $CO(n, R)$. The purpose of this talk is to investigate to what extent the corresponding statement is true for their discrete analogues. It turns out that it does not always hold.