

# Lie Group and Representation Theory Seminar

Date: November 8 (Tue), 2005, 18:00–19:30

Place: RIMS, Kyoto University : Room 402

Speaker: Ivan Cherednik (University of North Carolina)

Title: On unitary representations of rational dahas

Abstract:

The talk will be an attempt to show the importance of the analytic aspects of the rational dahas via the the simplest case. I will begin with discussing the eigenvalue problem for the Dunkl operator (*one*  $x$ ), and then consider in full detail a simple example, that may be viewed as a starting point of the general theory of unitary representations of the rational dahas. This example is directly connected with the harmonic analysis on  $SL(2, R)$  and  $OSP(2 | 1)$ ; Dunkl operator is a square root of the radial part of the Laplace operator in this case, a kind of the Dirac operator.

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**NOTE: The time schedule has been changed.**