

Lie Group and Representation Theory Seminar

Date: January 20 (Thu) 17:00–18:00
Place: RIMS Room 005
Speaker: 杉山 和成 (Kazunari Sugiyama)
Title: Multiplicity One Property and the Decomposition
of b-Functions

Abstract:

This talk is based on a joint work with Professor Fumihiro Sato (Rikkyo University).

Recently, extensive calculations have been made on b-functions of prehomogeneous vector spaces with reducible representations. By examining the results of these calculations, we observe that b-functions of a large number of reducible prehomogeneous vector spaces have decompositions corresponding to those of representations. In this talk, we show that such phenomena can be ascribed to a certain multiplicity one property for group actions on polynomial rings. Our method can be applied equally to non-regular prehomogeneous vector spaces.

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