

Lie Group and Representation Theory Seminar

Date: June 1 (Tue), 2004, 17:00–18:00

Place: RIMS 402

Speaker: 松本 詔 氏 Sho MATSUMOTO (Kyushu)

Title: Measures on Young diagrams and symmetric functions

Abstract:

A limit distribution of the scaled first row in a Young diagram with respect to the Plancherel measure for symmetric groups is identical with that of the scaled largest eigenvalue of a Hermitian matrix from the Gaussian unitary ensemble [Baik-Deift-Johansson, 1999].

This result is extended to the other rows in a Young diagram by using correlation functions of the Plancherel measure [Borodin-Okounkov-Olshanski, 2000]. The shifted Schur measure defined by Schur Q -functions is an analogue of the Plancherel measure. Our aim is to calculate correlation functions of the shifted Schur measure in order to see a limit distribution of the measure.

Prior to the seminar, Matumoto will give an introductory seminar from 15:30-16:30 at 402.

セミナー連絡先： 数理解析研究所 小林俊行