

Discrete Mathematics Seminar

Time: Tuesday, 20 January 2015, 2:00-3:00 PM
Room: MCS 473 (Math Library)
Title: A new q -Selberg integral, Schur functions, and Young books
Speaker: Dr. Jangsoo Kim, Mathematics Department, Sungkyungwan University

Abstract:

Recently, Kim and Oh expressed the Selberg integral in terms of the number of Young books which are a generalization of standard Young tableaux of shifted staircase shape. In this talk the generating function for Young books according to major index statistic is considered. It is shown that this generating function can be written as a q -integral which gives a new q -Selberg integral. It is also shown that the new q -Selberg integral has an expression in terms of Schur functions. This is joint work with Soichi Okada.