Math 595 (Spring 2014)
Symmetric functions and Young tableaux

Instructor: Alexander Yong

Meeting times: 12:30PM-1:50PM Tuesdays and Thursdays

Location: 143 Altgeld Hall

Symmetric functions, and in particular, the Schur functions and their generalizations have applications to combinatorial enumeration, representation theory, Schubert calculus and other fields. The material will be presented purely combinatorially, but applications and further reading will be indicated. Much of the course will be devoted to the study of Young tableaux, related combinatorial algorithms, and enumeration problems. There are no prerequisites for graduate students.

The textbook will be


Supplementary references include


Grading will be based on homework exercises and an in-class presentation.