



**Speaker:** Sami Assaf  
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Thursday, April 10, 2014  
1:00 PM  
258 Hurley Hall

**Title:** Shifted dual equivalence and Schur P-positivity

**Abstract:**

Dual equivalence puts a crystal-like structure on linear representations of the symmetric group that affords many nice combinatorial properties. In this talk, we extend this theory to type B, putting an analogous structure on projective representations of the symmetric group. On the level of generating functions, the type A theory gives a universal method for proving Schur positivity, and the type B theory gives a universal method for proving Schur P-positivity. In addition, we use the analogy between type A and type B to define an LLT polynomial for type B that we prove is Schur P-positive.

This talk will be accessible to graduate students.