

Mathematics Department Colloquium

Organizer: Maciej Zworski

Thursdays, 4:10–5:00pm, Evans 60

March 23 **Jim Haglund**, Ohio State University

From Diagonal Harmonics to Macdonald Polynomial

We discuss a (conjectured) combinatorial formula for the Hilbert Series of the space of diagonal harmonic alternants, involving Catalan lattice paths, and how this eventually led to a combinatorial formula for the expansion of Macdonald symmetric functions into monomials, involving tableaux-like objects.