Speaker: Anthony Giaquinto, Loyola University Chicago
When: Tuesday April 23, 1:30-2:30 pm
Where: BRNG 1255

Title: Some Diagram Algebras and their Schur-Weyl Dualities

Abstract: Many diagram algebras have been well-studied in the context
of Schur-Weyl Duality. These include the symmetric group algebras,
Brauer algebras, partition algebras and Temperley-Lieb algebras. We
will review these contexts with an emphasis on examples and origins of
these algebras. Recent new instances of Schur-Weyl duality associated
to braid and twin groups will be presented in the context of their
Burau representations. Application to the representation theories of
these algebras will be given. This is joint work with Stephen Doty.