



Speaker: András Lőrincz
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Wednesday, April 18, 2018
3:00 PM
258 Hurley Hall

Title: On categories of equivariant D-modules

Abstract:

Let X be a complex algebraic variety with the action of an algebraic group G . In this talk I will discuss various results regarding G -equivariant D-modules on X . When G acts on X with finitely many orbits, the category of G -equivariant coherent D-modules is isomorphic to the category of finite-dimensional representations of a quiver with relations. We describe explicitly these quivers in the case when X is an irreducible multiplicity-free representation of a reductive group G . At the end I will mention some applications to local cohomology. This is joint work with Uli Walther.