

Cohomology of Group Actions
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Abstract: When a group acts on a space, the cohomology of the space is often determined by the group action. We will consider this mostly where the group is a linear algebraic group (i.e. a closed subgroup of the general linear group) and the space is an algebraic variety.

This is largely an expository talk, beginning with some basic examples and concluding with several results by Michel Brion and the speaker on group actions on algebraic varieties that are singular and in the context of Equivariant Intersection Cohomology.

Pre-requisites :
Familiarity with group actions, basic algebraic geometry and cohomology theory would be helpful.