

Milnor fibres of hypersurface singularities invariant under reductive group actions

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Abstract

Equivariant Milnor numbers for complex hypersurface singularities invariant under finite group actions are well understood. This talk will review the (limited) progress that has been made towards generalising this theory to infinite reductive group actions, for which the singularities are necessarily non-isolated. The main emphasis will be on relating the topology of Milnor fibres to the sets of critical points of invariant deformations.