Séminaire d'algèbre, géométrie et topologie
Mardi 15 décembre à 13h45
Salle I

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Madras

Semisimplicity of tensor products of representations and the Etale slice theorem in positive characteristics

Luna's etale slice theorem over fields of characteristic zero is a fundamental result and its generalization to positive characteristics is therefore of serious interest. We show how a comprehensive generalization is possible and how it leads naturally to answering natural questions on tensor products of semi-simple representations of algebraic groups. The work leads to a generalization of some recent results of Deligne and the work of Serre on tensor products of semisimple representations.