

Séminaire d'algèbre, topologie et géométrie
Jeudi 15 février à 14h
Salle I

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Topology of hyperplane arrangements and invariants of tensor products

We study the map from compactly supported cohomology to the usual cohomology of a complement of a hyperplane arrangement and give an explicit formula for a generalized version of this map. Our motivation comes from work of Schechtman and Varchenko who connected invariant theoretic objects to the cohomology of local systems on complements of hyperplane arrangements. Our results allow to equip certain spaces of invariants with interesting mixed Hodge structures. This is a joint work with P. Belkale and P. Brosnan.