

Topology of hyperplane arrangements and invariant theory

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Schechtman and Varchenko realize invariant theoretic objects in the cohomology of local systems on complements of hyperplane arrangements. I will start by describing a general problem of describing the image of compactly supported cohomology of a local system (defined on the complement of a hyperplane arrangement) in regular cohomology (this problem has some variants). Then, following Looijenga, I will discuss how this connects to invariant theory

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