

Seminari de Geometria Algebraica 2007/2008 (UB-UPC)

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<http://atlas.mat.ub.es/sga>

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Toric varieties I:

Toric varieties and geometric invariant theory

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Geometric invariant theory (GIT) is a powerful tool for constructing quotients in algebraic geometry. This lecture will discuss the general idea of GIT and explain why a GIT quotient of a torus acting on affine space is a toric variety. The toric version of GIT is simpler than the general version but illustrates nicely how GIT works.

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