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On reductive automorphism groups of regular embeddings

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(Submitted on 5 Jun 2012)

Let G be a connected reductive complex algebraic group acting on a smooth complete complex algebraic variety X. We assume that X under the action of C is a regular embedding, a condition satisfied in particular by smooth toric varieties and flag varieties. For any set D of G-stable prime divisors, we study the action on X of the connected automorphism group of X stabilizing D. We determine a Levi subgroup A of this automorphism group, and we compute relevant invariants of X as a spherical A-variety. As a byproduct, we obtain a description of the open A-orbit on X and the inclusion relation between A-orbit closures.

Comments:	39 pages
Subjects:	Algebraic Geometry (math.AG)
MSC classes:	14M27, 14M17, 14J50
Cite as:	arXiv:1206.0846 [math.AG]
	(or arXiv:1206.0846v1 [math.AG] for this version)

Submission history

From: Guido Pezzini [view email] [v1] Tue, 5 Jun 2012 09:01:34 GMT (35kb)

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