Seminari de Geometria Algebraica 2009/2010 (UB-UPC) Divendres 21 de maig a les 16 h. a l'aula del IMUB FM-UB http://atlas.mat.ub.es/sga

## Group actions on affine varieties

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This will be a survey on a recent development (of many authors, including the speaker) concerning studies on the automorphism groups of affine cones over projective verieties, and of some other affine varieties.

We are especially concerned with the cases where such a group is infinite dimensional.

We will also formulate some open problems.