Seminari de Geometria Algebraica 2010/2011 (UB-UPC) Divendres 29 d'octubre a les 15 h. a l'aula T2 FM-UB http://atlas.mat.ub.es/sga

The convex hull of a variety

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The boundary of the convex hull of a compact real affine variety is a hypersurface. I will present recent work with B. Sturmfels where we describe this hypersurface in terms of the dual variety of the affine variety. I shall also discuss a related natural conjecture on complex projective varieties that would lead to a simple proof of Severi's theorem.