

Seminari de Geometria Algebraica 2011/2012 (UB-UPC)
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<http://atlas.mat.ub.es/sga>

Fattening and geometry

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Let Z be a finite set of points in the complex projective plane. Let $\alpha(mZ)$ be the least number d , such that there exists a curve C passing through all points in Z with multiplicities at least m (equivalently, C contains the fat scheme mZ). We study the relation between the numbers $\alpha(mZ)$ and $\alpha((m+1)Z)$ and the geometric properties of the set Z .

It is a joint work with Marcin Dumnicki and Halszka Tutaj-Gasinska.
