

Seminari de Geometria Algebraica 2008/2009 (UB-UPC)

Dijous 11 de juny a les 16h. a l'aula B7

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

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## Hilbert-Burch matrices for ideals in $K[x, y]$

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Let  $I$  be an ideal  $I$  of  $k[x, y]$  such that  $\dim K[x, y]/I = 0$ . We show that there is a canonical choice for the Hilbert-Burch matrix of  $I$ . As an application, we determine the dimension of certain affine Gröbner cells and their Betti strata recovering results of Ellingsrud and Strømme, Göttsche and Iarrobino. This is a joint work with G.Valla.

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