Seminario de Análisis y Aplicaciones

Martes, 19 de junio de 2012

15:00 h., Aula Naranja (ICMat, Campus de Cantoblanco)

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Derivative bounds for rational Bézier curves and surfaces

Resumen:

Bézier curves are a class of rational curves that are heavily used in computer modelling and related fields. They became prominent thanks to the work of Pierre Bézier, at Renault, and Paul de Casteljau, at Citroën, around 1960.

Of practical interest are good L^∞ estimates for the derivatives of the rational paths which parametrise these curves.

I will give an introduction to the nice theory of such curves, and related surfaces, and then discuss some recent work on such L^∞ bounds.