

Departamento de Álgebra, Geometría y Topología (AGT)
Facultad de Ciencias
Universidad de Valladolid

Seminario de Geometría Algebraica y Singularidades (GAS)

Conferencia para el Viernes 4 de noviembre de 2011 a las 11:00h.

Diego Ruano. Aalborg Universitet.

**Bounding the number of points on a curve using a
generalization of Weierstrass semigroups and an application to
toric codes.**

Resumen:

In this talk we use techniques from coding theory to derive upper bounds for the number of rational places of an algebraic curve defined over a finite field. The used techniques yield upper bounds if the (generalized) Weierstrass semigroup for an n -tuple of places is known. This sometimes enables one to get an upper bound for the number of rational places for families of function fields. We consider an application to toric codes.

Joint work with Peter Beelen (DTU)

Lugar: Departamento de Álgebra, Geometría y Topología.

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<http://www.singacom.uva.es>

Organizador: Santiago Encinas.