



Seminario de Geometría y Topología

Conferencia

por

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título:

“The ideal and first syzygies of curves of genus 2”

Resumen:

Let C be a smooth and irreducible curve of degree $d \geq 7$ and genus 2 in projective space $P^{(d-2)}$ over an algebraically closed field of characteristic 0.

We consider rational normal scrolls generated by the g^1_2 on C and by g^1_3 's on C ; these scrolls contain naturally the curve C .

We will discuss the following results:

- The ideal of C is generated by ideals of these scrolls, more precisely by the ideal of the scroll generated by the unique g^1_2 on C and the ideal of one scroll generated by a g^1_3 on C .
- For general curve C there exists one scroll V generated by a g^1_3 on C such that the space of linear first syzygies of the ideal of C is generated by the first syzygies of the ideal of V and the first syzygies of the ideal of the scroll generated by the g^1_2 on C .

The last project is joint work with Lars Halvard Halle, University of Stavanger.

Fecha: Martes, 6 de mayo de 2014

Hora: 12:30 horas

Lugar: Aula 9, Edificio de Matemáticas

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