



## Conferencia

por

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título

“Conjugacy growth and languages for groups”

### Resumen:

The growth series of conjugacy classes in a finitely generated group often fails to be a rational function. In contrast, both the growth of elements that are of minimal length up to conjugacy, and the growth of the set of geodesic words up to conjugacy, is rational for many classes of groups. In all three cases, regularity of languages derived from conjugacy classes plays an important role in determining rationality of the growth series. In this talk I will discuss regularity for languages of conjugacy geodesics, and of geodesic normal forms for conjugacy classes and for minimal length elements up to conjugacy, for a variety of examples.

This is joint work with Laura Ciobanu, Derek Holt, and Sarah Rees.

**Fecha:** Viernes, 5 de junio de 2015

**Hora:** 12:00 horas

**Lugar:** Seminario de Álgebra, Edificio de Matemáticas, 2ª planta