



UNIVERSIDAD CAECE

Departamento de Matemática

CONFERENCIAS A CARGO DEL DOCTOR PHILIPPE GILLE (*UMR 8553 du CNRS – École Normale Supérieure de Paris*) Profesor Invitado de la Universidad Caece

● Primera conferencia:

VIERNES 30 DE ABRIL – 18:00

(Sesión abierta del Seminario de Geometría Algebraica del Departamento de Matemática de la Facultad de Ciencias Exactas y Naturales de la Universidad de Buenos Aires)

"GALOIS COHOMOLOGY AND FORMS OF ALGEBRAS OVER LAURENT POLYNOMIAL RINGS"

Abstract: This is a report on joint work with Arturo Pianzola. Our goal is to classify twisted toroidal Lie algebras namely Lie algebras which look like a simple complex Lie algebra $\mathfrak{g}$ extended to a Laurent polynomial ring R . We shall discuss mainly the case of the Lie algebra $\mathfrak{g} = \mathfrak{sl}(n)$ which relates to projective representations of finite abelian groups, quantum tori and Brauer groups of henselian fields.

● Segunda conferencia:

MARTES 4 DE MAYO – 18:00

"CONJUGACY OF INTEGRAL MATRICES"

Abstract: This talk is for a general audience. The description of conjugacy classes of matrices by elementary divisors ends a basic linear algebra course. The case of matrices over a field cannot generalize to rings. We shall discuss mainly the case of natural integers in view of elementary number theory focusing then on conjugacy classes of finite subgroups and finitely presented subgroups of $GL(n, \mathbb{Z})$.

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