



Seminario de Geometría y Topología

Conferencia

por

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título:

“Quadratic forms, twists and periods”

Resumen

This talk is about a joint work with B. Morin. Our aim is to define and study the twists of a G -equivariant quadratic form by G -torsors when G is an algebraic group. In particular we will establish comparison formulas between the Hasse-Witt invariants of the form and of some of its twists. A simple important example of this twisting procedure considered by Serre is the trace form of an étale algebra, which is obtained by twisting the standard/sum of squares form by the orthogonal representation attached to the algebra. We will also indicate how the algebra of periods of Kontsevich and Zagier appears in these comparison formulas when the quadratic forms are associated, via various cohomology theories, to a proper and smooth algebraic variety of even dimension.

Fecha: Jueves, 26 de noviembre de 2015

Hora: 13:00 horas

Lugar: Seminario de Geometría y Topología, Edificio de Matemáticas, 2ª planta