ALGEBRA AND NUMBER THEORY
SEMINAR

Rationally isomorphic hermitian forms and torsors of some non-reductive groups

Eva Bayer-Fluckiger
Ecole Polytechnique Federale de Lausanne

Abstract: This is a joint work with Uriya First.
Let R be a semi-local Dedekind domain. Under certain assumptions, we show that two (not necessarily unimodular) hermitian forms over an R-algebra with involution that are rationally isometric are isometric over R. The result can be regarded as a first step towards a version of the Grothendieck-Serre conjecture for certain non-reductive group schemes over Spec R.

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