

ALGEBRA  
SEMINAR

*Degree 3 cohomological invariants and quadratic splitting of  
hermitian forms*

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**Abstract:** Using variations on the Rost invariant of Spin groups, we define an invariant with values in  $H^3(F, \mu_2)$  for hermitian forms with vanishing lower-degree invariants, and discuss the relation between this invariant and the existence of quadratic extensions of the base field that make the hermitian form split hyperbolic. (Joint work in progress with Anne Quéguiner-Mathieu)

Tuesday, November 26, 2013, 4:00 pm  
Mathematics and Science Center: W306

MATHEMATICS AND COMPUTER SCIENCE  
EMORY UNIVERSITY