

ALGEBRA  
SEMINAR

*The genus of a division algebra*

Igor Rapinchuk  
Harvard

**Abstract:** In this talk, I will address the following problem. Suppose  $D$  and  $D'$  are central division algebras over a field  $K$ . What can be said about  $D$  and  $D'$  if they have the same maximal subfields? I will discuss various motivations for this question and recent results. I will also mention some generalizations to arbitrary absolutely almost simple algebraic groups. This is joint work with V. Chernousov and A. Rapinchuk.

Tuesday, October 28, 2014, 4:00 pm  
Mathematics and Science Center: W306

MATHEMATICS AND COMPUTER SCIENCE  
EMORY UNIVERSITY