

Algebra Seminar

Dr. Yuri Bahturin
Memorial University

Wednesday, November 2, 2016
1:00p.m., HH-3017

Classification of Real Graded Division Algebras. II
(Joint with Mikhail Zaicev)

Abstract

This is the second part of the talk with this title. An associative algebra A graded by a group G is called a graded division algebra if every nonzero homogeneous element is invertible. We give a complete classification, up to equivalence, of real graded division algebras A , in the case where A is finite-dimensional and the group G is abelian. As a consequence, we can describe all real finite-dimensional graded simple algebras.