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Colloquium

Quadratic forms over function fields of p-adic curves

Professor Raman Parimala
Emory University

Abstract

A classical theorem of Hasse-Minkowski asserts that a quadratic form over a number field is isotropic, i.e., it represents zero nontrivially, if it is isotropic over completions at all its places. As a consequence, every quadratic form in at least five variables over a totally imaginary number field is isotropic. A natural question is to extend such a Hasse principle to function fields of curves over p-adic fields and number fields. We discuss some recent results in this direction as well as similar Hasse principle for rational points on homogeneous spaces under connected linear algebraic groups.

Date: 21 December 2018 (Friday)
Time: 2:00pm - 3:00pm
Venue: Room 222, Lady Shaw Building,
         The Chinese University of Hong Kong, Shatin

All are Welcome