



UNIVERSITY OF HYDERABAD
SCHOOL OF MATHEMATICAL & STATISTICS

SEMINAR NOTICE

Name & Address of the Speaker	Dr. Makoto Sakagaito, Dept. of Mathematical Sciences, IISER, Mohali.
Title of the Talk and Day, Date and Time	1st Talk: On a local-global principle for Brauer groups. On 12th Nov, 2018 at 3.45pm 2nd Talk: On a local-global principle for Galois cohomology. On 19th Nov, 2018 at 3.45pm
Venue	Seminar Hall - I

All are cordially invited to attend.

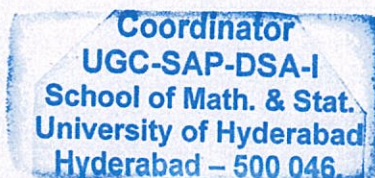
Abstract of the 1st Talk

The Brauer group plays an important role in number theory. One of example is Albert-Brauer-Hasse-Noether theorem for Brauer groups. I will introduce its application the local-global principle over the algebraic function field of one variable over a henselian discrete valuation field as an analogous fact of the above theorem.

Abstract of the 2nd Talk

Colliot-Thélène posed a question whether a local-global principle for Galois cohomology over the function field K of a curve over a Henselian discrete valuation ring A is true. In particular, the local-global principle for the Brauer group over K is true. In the case where A is equi-characteristic, D.Harbarter-J.Hartmann-D.Krashen showed that this local-global principle is true and Y.Hu gave an alternative proof. If the Gersten conjecture for étale cohomology over two-dimensional Henselian excellent regular local ring is true, we can prove that the local-global principle is still true without the equi-characteristic assumption by Hu's method. In this talk, we prove the Gersten's conjecture for étale cohomology over two-dimensional Henselian excellent regular local ring.

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