

Abstract

Since its introduction by Grothendieck in 1960's, *l*adic sheaves on a variety of positive characteristic has been a basic tool in arithmetic geometry. Although the Grothendieck-Ogg-Shafarevich formula computing the Euler number using the ramification was established in 60's for a curve, its generalization to higher dimension was left remained for decades. will report on recent progresses on the definition of the characteristic cycle of an *l*-adic sheaf and its application to the Euler number and vanishing cycles, guided by an analogy between the irregularity of a *D*-module and wild ramification of an *l*-adic sheaf.

Venue

- Date: January 11 (Saturday), 2014.
- Time: 16:00-17:00.
- Place: 1-st floor Lecture Room 101, Bulding DC, Saga University.

*This is a joint event with Colloquium of Department

of Mathematics, Saga University.

About Kyushu Joint Seminar:

The idea could be traced back to many decades. Thanks to the Kyushu Shinkansen, now it becomes practically possible. We hope that the Q-semi, nick name for the KJS, would provide a common platform for these interested to act and play, with the aim to promote the mathematical activities in big Kyushu area.

The organizer committee consists of four, Takashi Ichikawa (ichikawa@ms.saga-u.ac.jp), Fumiharu Kato (kato@sci.kumamoto-u.ac.jp), Kunio Obitsu (obitsu@sci.kagoshima-u.ac.jp), and Lin Weng (weng@math.kyushu-u.ac.jp).

If you have good candidate for speaker, please feel free to contact us: It should not be bounded by our research fields. Currently, we would like to arrange the Q-semi 2-4 times a year in Kyushu area.