

Arithmetic, differential, and geometry

2013 October 31, November 1
Mathematical Institute, Tohoku University

Program

October 31, Thursday —10月31日(木)— Room 209

13:20–13:30 Opening

13:30–14:30 Kazuaki Miyatani —宮谷 和典— (Hiroshima Univ.)

Hypergeometric functions over finite fields and some hypersurfaces

14:45–15:45 Jeng-Daw Yu —余 正道— (National Taiwan Univ.)

Irregular Hodge filtrations in higher dimensions

Coffee Break

16:15–17:15 Takao Yamazaki —山崎 隆雄— (Tohoku Univ.)

Reciprocity sheaves: towards non-homotopy invariant motive theory

Conference Dinner

November 1, Friday —11月1日(金)— Room 305

11:15–12:15 Tomoyuki Abe —阿部 知行— (Kavli IPMU)

On nearby cycle functor for arithmetic \mathcal{D} -modules

Lunch Break

13:30–14:30 Nobuo Tsuzuki —都築 暢夫— (Tohoku Univ.)

Singular fibers of the arithmetic families of hypergeometric Calabi-Yau varieties

14:45–15:45 Jeng-Daw Yu —余 正道— (National Taiwan Univ.)

Slopes for exponential sums on curves

Coffee Break

16:15–17:15 Yasuhiro Goto —後藤 泰宏— (Hokkaido Univ. of education)

Some arithmetic aspects of Calabi-Yau threefolds of Borcea-Voisin type

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Organizers: Nobuo Tsuzuki, Tomoyuki Abe