

Algebraic Geometry and Beyond

December, 12 (Mon) – 16 (Fri), 2005

*Room 420, Research Institute of Mathematical Science
Kyoto University*

| | 12 (Mon.) | 13 (Tues.) | 14 (Wed.) | 15 (Thurs.) | 16 (Fri.) |
|-------------|--------------|------------|-----------|-------------|-----------|
| 9:30–10:30 | | Morrison | Kawamata | Andersen | Illusie |
| 10:40–11:40 | | Maeno | Fukaya | Reid | Oort |
| 11:40–13:30 | Registration | Lunch | Lunch | Lunch | |
| 13:30–14:30 | Viehweg | Yamada | no talk | Mochizuki | |
| 14:40–15:40 | Wilson | Miyaoka | | Katsura | |
| 15:40–16:00 | Tea | Tea | | Tea | |
| 16:00–17:00 | Fujino | Ueno | | Geer | |

- *December 12, (Monday)*

- 12:00–13:30, *Registration*
- 13:30–14:30, Eckart Viehweg (Essen), *Stability of Hodge bundles and the uniformization of certain Shimura varieties*
- 14:40–15:40, Pelham Wilson (Cambridge), *Geometry of Kahler moduli*
- 15:40–16:00, *Tea*
- 16:00–17:00, Osamu Fujino (Nagoya), *Toric Mori theory*

- *December 13, (Tuesday)*

- 9:30–10:30, David Morrison (Duke), *Flops, flips, and matrix factorization*
- 10:40–11:40, Toshiaki Maeno (Kyoto), *Nichols-Woronowicz model of the quantum Grothendieck ring of the flag variety*
- 11:40–13:30, *Lunch*
- 13:30–14:30, Yasuhiko Yamada (Kobe), *Plane Curves and Discrete Painlevé Equations*
- 14:40–15:40, Yoichi Miyaoka (Tokyo), *An improvement of the Miyaoka-Yau inequality for open surfaces*
- 15:40–16:00, *Tea*
- 16:00–17:00, Kenji Ueno (Kyoto), *Conformal field theory, Modular functor and TQFT, I*

- *December 14, (Wednesday)*
 - 9:30–10:30, Yujiro Kawamata (Tokyo), *Birational geometry and derived categories*
 - 10:40–11:40, Kenji Fukaya (Kyoto), *Homotopical algebra, moduli space, and topological field theory*
 - no talk in the afternoon

- *December 15, (Thursday)*
 - 9:30–10:30, Jørgen E. Andersen (Aarhus), *Conformal field theory, Modular functor and TQFT, II*
 - 10:40–11:40, Miles Reid (Warwick), *Orbifold Riemann–Roch and plurigenera*
 - 11:40–13:30, *Lunch*
 - 13:30–14:30, Shinichi Mochizuki (RIMS, Kyoto), *Inter-universal Hodge-Arakelov Theory*
 - 14:40–15:40, Toshiyuki Katsura (Tokyo), *On the distribution of linear codes*
 - 15:40–16:00, *Tea*
 - 16:00–17:00, Gerard van der Geer (Amsterdam), *Strata on a flag space over the moduli space of abelian varieties*

- *December 16, (Friday)*
 - 9:30–10:30, Luc Illusie (Orsay), *Old and new on vanishing cycles*
 - 10:40–11:40, Frans Oort (Utrecht), *Stratifications and foliations of moduli spaces of abelian varieties*

Please register at the following URL: <http://agbeyond.math.kyoto-u.ac.jp>
 Please send inquiries to: agbeyond@math.kyoto-u.ac.jp

Organizers

M.-H. Saito (Kobe, Chair), H. Tokunaga (Tokyo Metropolitan), F. Kato (Kyoto)
 S. Mukai (Kyoto, RIMS), T. Katsura (Tokyo) and Y. Shimizu (Tokyo, ICU)

Support

This conference is partly supported by RIMS.

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