Workshop for Birationalists

Groups of Birational Automorphisms

March 31st 2009 – April 7th 2009

Pohang Mathematics Institute, POSTECH, Pohang, Korea

Participants

- ◆ Hamid Ahmadinezhad (University of Kent, UK)
- ◆ Grigory Belousov (Moscow State University, Russia)
- ◆ Vladimir Baranovsky (University of California Irvine, USA)
- ◆ Caucher Birkar (University of Cambridge, UK)
- ◆ Ivan Cheltsov (University of Edinburgh, UK)
- ◆ Kyusik Hong (Seoul National University, Korea)
- ◆ Ilya Karzhemanov (University of Edinburgh, UK)
- ◆ In Kyun Kim (POSTECH, Korea)
- ◆ Dimitra Kosta (University of Edinburgh, UK)
- ◆ Jihun Park (POSTECH, Korea)
- ◆ Yuri Prokhorov (Moscow State University, Russia)
- ◆ Victor Przyjalkowski (Steklov Institute, Russia)
- ◆ Beamsu Sea (POSTECH, Korea)
- ◆ Dongsoo Shin (POSTECH, Korea)
- ◆ Constantin Shramov (University of Edinburgh, UK)
- ◆ Andrew Wilson (University of Edinburgh, UK)
- ◆ Joonyeon Won (POSTECH, Korea)
- ◆ Youngho Woo (KIAS, Korea)

Program

This free-style workshop aims at communications among researchers on algebraic geometry and related topics. In principle it does not restrict itself to a specified topic. However, groups of birational automorphisms are discussed by several participants. Participation is by invitation only. However, everyone is welcome to attend the talks. The workshop is supported by the Korea Research Foundation and Hermitian Program of Pohang Mathematics Institute.

31st of March
[10:00 – 11:00] Preliminary Meeting

1st of April
[10:00 – 11:00] Simple subgroups of two-dimensional Cremona group (Cheltsov)
[11:30 – 12:30] TBA (Wilson)

2nd of April
[14:00 – 15:00] On finite simple subgroups in the Cremona group of rank 3 (Prokhorov)
[15:30 – 16:30] TBA (Belousov)

3rd of April
[10:00 – 11:00] Minimal Models in dimension 4 (Birkar)
[11:30 – 12:30] Birational maps of Mori fibre spaces (Ahmadinezhad)
[16:00 – 17:00] POSTECH Math Colloquium : Birational Geometry (Birkar)

4th of April
Excursion (Hiking along a historic trail of Namsan , a 494-meter mountain at Gyeongju)

5th of April
[13:00 – 14:00] Weak Landau–Ginzburg models and rationality problems (Przyjalkowski)
[14:30 – 15:30] TBA (Kosta)
[16:00 – 17:00] Global log-canonical thresholds of smooth Fano threefolds (Shramov)

6th of April
[10:00 – 11:00] On derived categories for toric Calabi–Yau hypersurfaces (Baranovsky)
[11:30 – 12:30] Simply connected surfaces of general type with $P_g=0$ and $K^2=3, 4$ (Shin)

7th of April
[14:00 – 15:00] TBA (Karzhemanov)
[15:30 – 16:30] Boundary case of Cayley–Bacharach conjecture and factorial 3-folds (Woo)

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