

International Conference

“Algebraic Geometry and Applications to Physics and Dynamics”

Euler International Mathematical Institute, Saint Petersburg, Russia, May 25—29

Monday, May 25

10:00—10:25 Registration

10:25—10:30 Opening of the Conference

10:30—11:30 Nikita Nekrasov, Crossed instantons and qq-characters

11:30—11:50 Coffee break

11:50—12:50 Tony Pantev, Symplectic geometry, foliations, and potentials

13:00—15:00 Lunch

15:00—16:00 Anton Zorich, Diffusion of wind-tree billiards and Lyapunov exponents of the Hodge bundle

16:00—16:20 Coffee break

16:20—17:20 Martin Möller, Counting covers with Siegel—Veech weight and quasimodular forms

18:00 Welcome party

Tuesday, May 26

10:30—11:30 Ludmil Katzarkov, Sheaves of categories and application

11:30—11:50 Coffee break

11:50—12:50 Constantin Shramov, Irrational singular quartic double solids

13:00—15:00 Lunch

15:00—16:00 Yuri Prokhorov, Effective results in the three-dimensional minimal model program

16:00—16:20 Coffee break

16:20—17:20 Jean-Louis Colliot-Thélène, Stable rationality and algebraic cycles

18:00 Boat trip

Wednesday, May 27

10:30—11:30 Yukinobu Toda, Bogomolov—Gieseker type inequality and Donaldson—Thomas invariants

11:30—11:50 Coffee break

11:50—12:50 Dmitry Kaledin, Different kinds of cyclic homology

13:00—15:00 Lunch
15:00 Bus excursion
19:00 Conference dinner

Thursday, May 28

10:30—11:30 Yujiro Kawamata, Derived categories of toric varieties
11:30—11:50 Coffee break
11:50—12:50 Alexander Kuznetsov, Embeddings of derived categories of curves into Fano varieties
13:00—15:00 Lunch
15:00—16:00 Laurent Manivel, Fano manifolds of K3 or Calabi—Yau type
16:00—16:20 Coffee break
16:20—17:20 Allen Knutson, A geometric representation theory for the Brauer loop model

Friday, May 29

10:30—11:30 Kyoji Saito, Real zeros of the skew-growth functions of Artin and dual Artin monoids
11:30—11:50 Coffee break
11:50—12:50 Victor Przyjalkowski, Laurent phenomenon for Landau—Ginzburg models
13:00—15:00 Lunch
15:00—16:00 Alexander Efimov, Generalized Hochschild-to-cyclic degeneration
16:00—16:20 Coffee break
16:20—17:20 Alexey Bondal, Flops and spherical functors
17:20—17:30 Closing of the Conference