

International seminar for young researchers “Algebraic, combinatorial and toric topology”

December 17–18, 2020 (online)

Steklov Mathematical Institute of Russian Academy of Sciences

SCHEDULE

(The schedule is written in Moscow time (GMT+3))

Thursday, December 17

Morning session

- 10:00-10:40** Hiroaki Ishida (Kagoshima University)
Holomorphic foliations and transversal real sub manifolds in Kahler manifolds
- 10:50-11:30** Tatsuya Horiguchi (Osaka City University)
Topics on Hessenberg varieties
- 11:50-12:30** Semyon Abramyan (Higher School of Economics)
TBA
- 12:40-13:20** Zixi Wang (Fudan University)
Distinguishing 4-dimensional geometries via profinite completions
- 13:35-14:15** Denis Gorodkov
A combinatorial formula for the first Pontryagin class in terms of combinatorial curvature redistribution

Evening session

- 16:05-16:45** Igor Spiridonov (Higher School of Economics)
On the structure of the top homology group of the Johnson kernel
- 17:00-17:40** Guy Boyde (University of Southampton)
A K-theory criterion for p-hyperbolicity
- 17:50-18:30** Holly Paveling (University of Southampton)
TBA
- 18:50-19:30** Simon Rea (University of Southampton)
Homotopy types of gauge groups of $PU(p)$ -bundles over spheres
- 19:40-20:20** Steven Amelotte (University of Rochester)
The minimal Hirsch-Brown model for moment-angle complexes

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Friday, December 18

Morning session

- 10:00-10:40** Jongbaek Song (Korea Institute for Advanced Study)
Toric varieties associated with partitioned weight polytopes
- 10:50-11:30** Jingfang Lian (Fudan University)
The alpha invariant of twisted Milnor hypersurfaces
- 11:50-12:30** Lisu Wu (Fudan University)
The integral homology of Coxeter cellular complexes
- 12:40-13:20** Mikhail Gorsky (Max Planck Institute for Mathematics)
Braid varieties, torus actions and stratifications
- 13:35-14:15** George Chernykh (Moscow State University)
SU-linear operations in complex cobordism and c_1 -spherical bordism theory

Evening session

- 17:00-17:40** George Simmons (University of Southampton)
One-relator loop homology algebras of moment-angle complexes
- 17:50-18:30** Matthew Staniforth (University of Southampton)
Duality in Toric Topology
- 18:50-19:30** Ivan Limonchenko (University of Toronto)
TBA
- 19:40-20:20** Roman Krutowski (University of California, Los Angeles)
Basic de Rham cohomology of manifolds with maximal torus action