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)
On homology of the MSU spectrum

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)
H-maps of p-regular Lie groups

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

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 (Hausdorff Research 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)
New parametric families of graph-associahedra arising in toric topology

19:40-20:20   Roman Krutowski (University of California, Los Angeles)
Basic de Rham cohomology of manifolds with maximal torus action