Quantum Topology

July 13 - 18, 2015

Program

<u>Monday, July 13</u>

9:15 -9:55 Registration
9:55   Opening
10:00 - 10:50   Michael Farber, **Topology of large random spaces**
Coffe break
11:20 - 12:10   Jozef Przytycki, **Homology of Yang-Baxter operators and search for (co)cycle invariants of knots**
Lunch
14:00 - 14:50   Anton Alekseev, **Moduli spaces of flat connections and free Lie algebras**
15:00 - 15:50   Tahl Nowik, **Complexity and invariants of knot diagrams, curves, and surfaces**
Coffee break
16:20 - 17:10   Christoph Schweigert, **TV theories with defects and representation theory**
17:30 Welcome party

<u>Tuesday, July 14</u>

10:00 - 10:50   Gregor Masbaum, **On modular TQFT-representations of mapping class groups**
Coffe break
11:20 - 12:10   Sergei Lando, **Matroids, delta-matroids, and knot invariants**
Lunch
14:00 - 14:50   Nathan Geer, **Re-normalized TQFTs**
15:00 - 15:50   Alexis Virelizier, **3-dimensional HQFTs**
Coffee break
16:20 - 17:10   Andrei Malyutin, **On the number of non-hyperbolic knots**

<u>Wednesday, July 15</u>

10:00 - 10:50   Iskander Taimanov, **On a high-dimensional generalization of Seifert fibrations**
Coffe break
11:20 - 12:10   Adam Sikora, **On fundamental properties of skein algebras of surfaces**
Lunch
14:00 - 14:50   Paul Kirk, **A Lagrangian-Floer theory for traceless SU(2) character varieties of tangles**
15:00 - 15:50   Sergey Natanzon, **Symmetric solutions of the dispersionless 2D Toda hierarchy, Hurwitz numbers and conformal dynamics**
Coffee break

16:20 - 17:10   Alexander Mednykh, **Branched coverings and harmonic automorphisms of graphs**
17:30- 20:00 Boat trip from the embankment near Euler institute

Thursday, July 16

10 :00   Excursion to Peterhoff

Friday, July 17

10:00 - 10:50   Alexander Gaifullin, **The Bellows conjecture in odd-dimensional Lobachevsky spaces**
Coffe break
11:20 - 12:10   Andrei Vesnin, **A census of tetrahedral hyperbolic manifolds and links**
Lunch
14:00 - 14:50   Ivan Dynnikov, **Convex surfaces and rectangular diagrams**
15:00 - 15:50   Evgeny Fominykh, **On Matveev's complexity of classical and virtual 3-manifolds**
Coffee break
16:20 - 17:10   Andrey Morozov, **Simplified Khovanov-Rozansky calculus**
19:00 Conference dinner at Tchaikovsky restaurant (Fontanka emb, 6)

Saturday, July 18

10:00 - 10:50   Athanase Papadopoulos, **The arc metric on Teichmuller space**
Coffe break
11:20 - 12:10   Vladimir Vershinin, **Brunnian Braids and Lie Algebras**
Lunch
14:00 - 14:50   Vassily Manturov, **Picture-valued invariants, groups G_n^k, and applications of virtual knot theory to classical knot theory**
15:00 - 15:50   Alexey Sleptsov, **Calculation of colored HOMFLY polynomials**
Closing