

# General Programme of RCCKT-2017

3 July – 7 July 2017

Library. Laboratory Building of BMSTU, Moscow

## Monday 3<sup>rd</sup> July 2017

9.00 - 10.00 Registration of delegates, conference opening

**10.00 - 11.00** **Zhiqing Yang**  
*Enhanced brackets*

**11.00 - 12.00** **A. Vesnin**  
*Decomposition of knot complements into right-angled polyhedra*

12.00 - 14.00 Lunch

**14.00 - 14.45** **O. Frolkina**  
*Uncountable families of pairwise disjoint inequivalent wild  $k$ -disks in  $\mathbb{R}^n$*

**14.45 - 15.30** **A. Lightfoot**  
*On classifying link maps in the four-sphere*

15.30 - 16.00 Coffee Break

**16.00 - 17.00** **L. Kauffman**  
*Knotoids and virtual knot theory*

**17.00 - 17.45** **N. Kamada**  
*Invariants of virtual doodles*

18.00 - Lecture

## Tuesday 4<sup>th</sup> June 2017

**9.00 - 10.00** **S. Kamada**  
*Doodles on surfaces*

**10.00 - 11.00** **Wu Jie**  
*Homotopy aspects of braids and links*

11.00 - 11.20 Coffee Break

**11.20 - 12.00** **D. Fedoseev**  
*Parities on 2-knots and 2-links*

12.00 - 14.00 Lunch

**14.00 - 14.45** **I. Nikonov**  
*On universal parity of free 2-knots*

14:45 - 15:15 Coffee Break

**15.15 - 16.00** **Y. Bae**  
*Homotopy Groups of Certain Finite Quandles*

16.00 - 16.30 Coffee Break

**16.30 - 17.15** **S. Kim**  
*A generalization of the Conway algebra and polynomial invariants*

**17.15 - 18.00** **Zhiyun Cheng**  
*The chord index and its applications*

18.00 - 20.00 Banquet at BMSTU

### Wednesday 5<sup>th</sup> July 2017

- 9.00 - 10.00** **V. Manturov**  
*Algebra, topology and geometry of groups  $G_n^k$*
- 10.00 - 11.00** **S. Carter**  
*Foams, polytopes, abstract tensors, and homology*
- 11.00 - 11.20 Coffee Break
- 11.20 - 12.00** **K. Gotin**  
*Representations of the virtual braid groups the rook algebras*
- 12.00 - 14.00 Lunch
- 14.00 - 14.40** **D. Ilyutko, A. Trofimova**  
*2-Colored diagrams of knots: moves, realizability and invariants*
- 14.40 - 15.20** **S. Melikhov**  
*Self  $C_2$ -equivalence of links in  $S^3$  via invariants of link maps in  $S^4$*
- 15.20 - 16.00** **A. Shishanin**  
*Nambu bracket and sigma-models*
- 16.00 - 21.00** **River trip along the Moscow River, Excursion to Kremlin etc.**

### Thursday 6<sup>th</sup> July 2017

- 9.00 - 10.00** **Kauffman at PIRT conference**
- 10.00 - 11.00** **Jiajun Wang**  
*Equivalence of nice Heegaard diagrams and combinatorial Floer homology*
- 11.00 - 11.20 Coffee Break
- 11.20 - 12.00** **Xuezhi Zhao**  
*Finite abelian group actions on surfaces*
- 12.00 - 14.00 Lunch
- 14.00 - 15.00** **V. Leksin**  
*Three-points Kontsevich integral for braids*
- 15.00 - 15.45** **Li Fengling**  
*3-manifold invariants derived from the intersecting kernels*
- 15.45 - 16.15 Coffee Break
- 16.15 - 17.00** **Ping Li**  
*On the uniqueness of the complex projective spaces*
- 17.20 - 18.00** **I. Korepanov**  
*Hexagon relations and their cohomologies*

### Friday 7<sup>th</sup> July 2017

- 9.00 - 10.00** **Y. Liu**  
*Representation volume and higher dimensional geometries*
- 10.00 - 11.00** **D. Fedoseev, V. Manturov**  
*Parity and Cobordisms of Virtual Knots*
- 11.00 - 11.20 Coffee Break
- 11.20 - 12.00** **N. Abrosimov**  
*Hyperbolic structure on the figure-eight knot with a bridge*
- 12.00 - 14.00 Lunch
- 14.00 - 14.45** **W. Rushworth**

*The odd writhe is an obstruction to sliceness*

**14.45 - 15.30** **S.Y. Lee**

*Invariants for surface-links and virtual surface-links*

15.30 - 16.00 Coffee Break

**16.00 - 17.00** **Open problems session**

17.00 - 18.00 Closing of the conference