

Workshop Talks

Dorothy Buck

Department of Mathematics, Imperial College London
The Topology of DNA-Protein Interactions

Sylvain Cappell

Courant Institute of Mathematical Sciences, New York University
The Role of Knot Theory in Transformation Groups

Sergei Chmutov

Department of Mathematics, Ohio State University
Combinatorics of Gauss Diagrams and the HOMFLYPT Polynomial

Heather Dye

McKendree University
The Arrow Polynomial

Stefan Friedl

Warwick Mathematics Institute, University of Warwick
Symplectic 4-Manifolds and Fibered 3-Manifolds

Stavros Garoufalidis

School of Mathematics, Georgia Institute of Technology
The HOMFLY Polynomial of a 3-Manifold, the Trilogarithm and Painlevé I

Cameron Gordon

Department of Mathematics, University of Texas at Austin
Exceptional Dehn Filling

Denis Ilyutko

Dept. of Mechanics And Mathematics, M.V. Lomonosov Moscow State University
Graph-links, Virtual Links, Kauffman Bracket and Simplicial Presentation of Khovanov Homology

Barbara Jablonska

Institut für Mathematik, Technische Universität Berlin
Surfaces Associated to a Knotted Space Curve

Louis Kauffman

Department of Mathematics, Statistics, and Computer Science, University of Illinois at Chicago

1. *Extending the Jones Polynomial for Virtual Links*
2. *Unitary Representations of the Artin Braid Group and the Quantum Algorithms for Jones Polynomials*

Sofia Lambropoulou

Department of Mathematics, National Technical University of Athens
Singular Knots and Yokonuma-Hecke Algebras

Joan Licata

Department of Mathematics, Stanford University
Linearized Homology for Grid Number One Knots in $L(p,q)$

Vassily Manturov

People's Friendship University of Russia
Which Khovanov Homology Theory Is the Right One?

Hugh Morton

Department of Mathematical Sciences, University of Liverpool
Relations Between Homfly and Kauffman Satellite Invariants

Daniel Moskovich

Research Institute for Mathematical Sciences, Kyoto University
Surgery Equivalence Classes of Knots Coloured by Metabelian Groups

Kent Orr

Department of Mathematics, Indiana University Bloomington
Surface Knots and Iterated Intersection Theory

Jozef Przytycki

Department of Mathematics, The George Washington University
Skein Module Motivation for Gram Determinants of Planar Curves

Andrew Ranicki

School of Mathematics, University of Edinburgh
Noncommutative Localization in Algebra and Topology

Jacob Rasmussen

Department of Pure Mathematics and Mathematical Statistics, University of Cambridge
Dehn Filling and the Thurston Norm

Martin Scharlemann

Mathematics Department, University of California, Santa Barbara
Fibered Knots and Property 2R

De Witt Sumners

Department of Mathematics, Florida State University
Random Knotting and Viral DNA Packing