

**Programme on
“Modern Trends in Topological Quantum Field Theory”**

**organized by
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Nicolai Reshetikhin, and Christoph Schweigert**

February 3 - March 28, 2014

Workshop II - Schedule, March 17 - 21, 2014

• **Monday, March 17, 2014**

09:00 **Opening & Registration**

10:00 – 10:40 *coffee*

10:40 – 11:30 **John Barrett**

The geometry of matrices and 2d TQFT

11:40 – 12:30 **Nathan Geer**

Non semi-simple $sl(2)$ quantum invariants, Part I: From links to TQFTs

12:30 – 15:00 *lunch break*

15:00 – 15:50 **David Ridout**

Module categories for affine VOAs at admissible level

15:50 – 16:30 *break*

16:30 – 17:20 **Qingtao Chen**

Congruent skein relation and LMOV conjectures

• **Tuesday, March 18, 2014**

09:10 – 10:00 **Gregor Schaumann**

**-representations for tensor categories*

10:00 – 10:40 *coffee*

10:40 – 11:30 **Drazen Adamovic**

On constructions of logarithmic representations for certain vertex algebras

11:40 – 12:30 **Bertrand Patureau**

Non semi-simple $sl(2)$ quantum invariants, Part II: 3-manifold invariants

12:30 – 15:00 *lunch break*

15:00 – 15:50 **Martin Schnabl**

New look at BCFT's from OSFT

- **Wednesday, March 19, 2014**

09:10 – 10:00 **Serguei Merkoulov**

Grothendieck-Teichmüller group and exotic automorphisms of the Lie algebra of polyvector fields

10:00 – 10:40 *coffee*

10:40 – 11:30 **Jesper Jacobsen**

Logarithmic correlations in geometrical critical phenomena

11:40 – 12:30 **Francesco Costantino**

Non semi-simple $sl(2)$ quantum invariants, Part III: TQFTs and mapping class group representations

- **Thursday, March 20, 2014**

09:10 – 10:00 **Jun Murakami**

Generalized Kashaev invariants for knots in three-manifolds

10:00 – 10:40 *coffee*

10:40 – 11:30 **Simon Wood**

Rational logarithmic extensions of the minimal models and their simple modules

11:40 – 12:30 **Christian Blanchet**

Quantum invariants and spin structures

12:30 – 15:00 *lunch break*

15:00 – 15:50 **Christoph Schweigert**

Invariants for mapping class group actions from ribbon Hopf algebra automorphisms

- **Friday, March 21, 2014**

09:10 – 10:00 **Azat Gaynutdinov**

From the deformed Virasoro algebra to Temperley-Lieb algebras

10:00 – 10:40 *coffee*

10:40 – 11:30 **Andrey Lazarev**

Unimodular homotopy algebras and Chern-Simons theory

11:40 – 12:30 **Gregor Masbaum**

All finite groups are involved in the mapping class group

For abstracts please visit the ESI Website

<http://www.esi.ac.at/activities/events/2014/modern-trends-in-topological-quantum-field-theory>

All lectures take place in the ESI Boltzmann Lecture Hall