

Volume Conjecture

Invariants and geometry of knots

Workshop for understanding
the relation between
quantum invariants and geometry of knots

January 14th to 16th, 2010

Robert Shillman Hall 10F Meeting Room
Nishiwaseda Campus, Waseda University
Tokyo, Japan

PROGRAM

January 14 (Thursday)

10:00 - 11:00 **The volume conjecture for graphs and cables, I**
Roland van der Veen (University of Amsterdam)

Coffee

11:30 - 12:30 **The extended Bloch group and the Chern-Simons invariant, I**
Christian Zickert (University of California, Berkeley)

Lunch

14:00 - 15:00 **Modified 6j-Symbols and 3-Manifold Invariants, I**
Nathan Geer (Utah State University)

Coffee

15:30 - 16:30 **Quandle and hyperbolic volume**
Ayumu Inoue (Tokyo Institute of Technology)

January 15 (Friday)

- 10:00 - 11:00 **The volume conjecture for graphs and cables, II**
Roland van der Veen (University of Amsterdam)
Coffee
- 11:30 - 12:30 **The extended Bloch group and the Chern-Simons invariant, II**
Christian Zickert (University of California, Berkeley)
Lunch
- 14:00 - 15:00 **Modified 6j-Symbols and 3-Manifold Invariants, II**
Nathan Geer (Utah State University)
Coffee
- 15:30 - 16:30 **Volume conjecture of colored Jones polynomials**
Jinseok Cho (Waseda University)
- 16:45 - 17:45 **The volume and the Chern-Simons invariant of a $PSL(2, \mathbb{C})$ -representation and quandle homology**
Yuichi Kabaya (Osaka City University Advanced Mathematical Institute)

January 16 (Saturday)

- 10:00 - 11:00 **The volume conjecture for graphs and cables, III**
Roland van der Veen (University of Amsterdam)
Coffee
- 11:30 - 12:30 **The extended Bloch group and the Chern-Simons invariant, III**
Christian Zickert (University of California, Berkeley)
Lunch
- 14:00 - 15:00 **Modified 6j-Symbols and 3-Manifold Invariants, III**
Nathan Geer (Utah State University)
Coffee
- 15:30 - 16:30 **The colored Jones polynomial of a torus knot and its representations to $SL(2; \mathbb{C})$**
Hitoshi Murakami (Tokyo Institute of Technology)
- 16:45 - 17:45 **On the complex volume of hyperbolic knots**
Yoshiyuki Yokota (Tokyo Metropolitan University)

Abstracts are available at the following URL:

<http://www.f.waseda.jp/murakami/workshop2010/abstracts.html>

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