Topological invariants in low dimensional topology

Dates: 31,October - 2, November, 2017
Venue:

Day 1(31th Oct.) :Midsize Conference Room (4th floor of Matsue Terrsa)

Day 2-3(1-2.Nov.) :Multipurpose Hall (2nd floor of Interdisciplinary Faculty of Science and Engineering Building III, Shimane univ.)

Organizers: Teruaki Kitano (Soka univ.), Tatsuro Shimizu (Kyoto univ.), Tadayuki Watanabe (Shimane univ.)

Oct. 31 (Tue.)

14:00-15:00 Tadayuki Watanabe (Shimane univ.)
An equivariant perturbative invariant of 3-manifolds with $b_1 = 1$

15:15-16:15 Tatsuro Shimizu (Kyoto univ.)
On the Bott-Cattaneo's Chern-Simons perturbation theory

16:30-17:30 Andrew Kricker (Nanyang Technological univ.)
What is the l^2-Alexander invariant and how can we approximate it?

Nov. 1 (Wed.)

9:30-10:30 Sakie Suzuki (Kyoto univ.)
The universal quantum invariant and colored ideal triangulations

11:00-12:00 Christine Lescop (Univ. Grenoble Alpes)
On the cube of the Blanchfield pairing and on its generalization as a universal equivariant finite type knot invariant

Nov. 2 (Thur.)

9:30-10:30 Delphine Moussard (Kyoto univ.)

A-ribbon 2-knots and factorized Alexander polynomial

11:00-12:00 Atsushi Mochizuki (Kyoto univ.)

On the Casson-Walker invariant of 3-manifolds admitting genus one open book decompositions

14:00-15:00 Yuta Nozaki(Univ. of Tokyo)

Homology cobordisms over a surface of genus one

15:30-16:30 Masatoshi Sato (Tokyo Denki univ.)

On the homology group of the genus three handlebody mapping class group