

PMI Quantum Topology Seminar

Prof. Sakie Suzuki
(RIMS, Kyoto university)



2016. 5. 31(Tue)
10:30am - 12:00pm
Math. Bldg. 313, POSTECH

Title

Construction of quantum g invariant via ideal triangulation

Abstract

The universal quantum g invariant is an invariant of framed links, and is constructed diagrammatically using a ribbon Hopf algebra structure of a finite dimensional quotient of quantum group. In that construction, a copy of the universal R matrix is attached on each positive crossing, and invariance under the Reidemeister III move is showed by the Yang-Baxter equation of the universal R matrix.

In this talk we give a construction of the universal quantum g invariant via topological ideal triangulations of the compliment, in which the invariance under the Pachner (2,3) move is showed by the Pentagon equation of Kashaev's universal S matrix.

Contact: Prof. Jinseok Cho (PMI, dol0425@postech.ac.kr)
Jua Jin (PMI, jinjwa@postech.ac.kr, 054-279-5511)