Oklahoma State University

Topology Seminar

Title

Quantum 6j-symbols and generalized hyperbolic tetrahedra

Speaker: Tian Yang, Texas A&M University
Date: Oct 3, 2023
Time: 4:00 PM
Room: Online

Abstract: Volume Conjecture relates the asymptotic behavior of various quantum invariants of a 3-manifold with the geometric information of the manifold. In this talk I will recall the Turaev-Viro invariants and its corresponding Volume Conjecture. Most of the results in this talk will focus on the building blocks of the Turaev-Viro invariants, the quantum 6j-symbols. We observed that the geometric quantity underlying the asymptotic behavior of quantum 6j-symbols is the volume of a suitably generalized hyperbolic tetrahedron. This is a joint work with Giulio Belletti,

Zoom link TBA