

Aspects of hyperbolic scissors congruences in quantum topology

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I will explain how the 2-3 triangulation move, in the context of hyperbolic polyhedra, gives rise to an essentially unique sequence of $(2+1)$ -dimensional QFT, including the Chern-Simons functional of $\mathfrak{sl}(2, \mathbb{C})$ -connections (as the classical case), quantum Teichmüller theory, and the quantum hyperbolic invariants of 3-manifolds.

Primary author: Prof. BASEILHAC, Stéphane (Montpellier)

Presenter: Prof. BASEILHAC, Stéphane (Montpellier)

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