

Revisiting the quantum polyhedron

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In 3d gravity with a cosmological constant, it has been shown that discretizing homogeneously curved geometries requires Poisson Lie group structures. This naturally appears when gluing 2d curved building blocks. At the quantum level, these building blocks are labeled with intertwiners defined in terms of quantum group representations.

To generalize this construction to the 4D case with a cosmological constant, we will show that it will be natural to use 2-group structures and get 2-group intertwiners as basic building blocks of the quantum theory.

Author: DUPUIS, Maite

Presenter: DUPUIS, Maite

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