Contribution ID: **92** Type: **invited talk**

3d gravity and quantum groups

Saturday 26 September 2020 12:55 (30 minutes)

It is well-known that quantum groups are relevant to describe the quantum regime of 3d gravity. They encode a deformation of the gauge symmetries (Lorentz symmetries) parametrized by the value of the cosmological constant. Such deformation might be perplexing from a classical picture since the action is defined in terms of plain/undeformed gauge symmetry. I would like to present here a novel way to derive/justify such quantum group deformation, starting from the classical gravity action.

Primary author: GIRELLI, Florian (University of Waterloo)

Presenter: GIRELLI, Florian (University of Waterloo)

Session Classification: Quantum Gravity and Quantum Cosmology