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Numerical techniques in covariant LQG

Monday, 5 July 2021 18:00 (25 minutes)

The application of numerical techniques to covariant LQG may able to provide answers to many of the current open questions in theory. In this presentation, I first introduce the formalism currently used to implement numerical computations. I illustrate a recent application of numerical techniques concerning the study of divergences in the EPRL self-energy amplitude, on which so far there were
only analytical upper and lower bounds spanning more than 9 orders of magnitude.

Primary author: FRISONI, Pietropaolo (Western University)

Presenter: FRISONI, Pietropaolo (Western University)

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