## Sixteenth Marcel Grossmann Meeting



Contribution ID: 137

Type: Talk in the parallel session

## Entanglement Entropy at Critical Points in the Multiverse

Tuesday, 6 July 2021 10:50 (25 minutes)

Recently the entanglement entropy between universes has been calculated, an entropy which somehow describes the quantumness of a homogeneous multiverse. The third quantization formalism of canonical quantum gravity is used here. I will show improvements of the results in a more general scenario, studying what happens at critical points of the evolution of a classical universe. We infer the relation of that entanglement entropy with the Hubble parameter of single universes.

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