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Evidence for Boundary Quantum Gravity: Aspects of a Bulk Geometric Torsion

Tuesday 13 December 2022 14:00 (1 hour)

We revisit an alternate gauge theoretic formulation leading to emergent gravity scenarios with renewed interest. The generic perspective of bulk/boundary correspondence is exploited to ensure the boundary aspects of quantum gravity from a bulk gauge theory. In addition to the extremal multi-black holes, we show that the non-extremal a charged black hole is also governed by multi-black holes in an emergent gravity framework. The unique topological quantum correction is worked out explicitly to ensure the multi-black holes underlying the quantum gravity. The analysis underlying the new theoretical tool is believed to unfold an origin of dark energy in the Universe.
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Session

Formal Theory

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