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What QCD teaches us about Quantum Gravity, and vice versa

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Abstract:

For long time, gravity is used for learning dynamical aspects of QCD, because holography connects gravity and QFT. In this talk, I will review the opposite direction: learning about gravity from QFT. In particular, I will focus on the quantum nature of black hole. Techniques developed among QCD-practitioners turned out to be useful for quantum gravity. At the same time, quantum gravity leads to new understanding about QCD and QFT. As an example, I introduce a new symmetry breaking mechanism motivated by evaporating black hole a la Hawking.

Additional comments

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