Contribution ID: **29**   Type: **not specified**

Higher Curvature Gravity and its implication

Saturday 7 December 2019 09:30 (30 minutes)

Einstein gravity may be coming from the leading linear term of the curvature in the low energy effective action. As the simplest extension of the Einstein gravity with the higher curvature term, we study the model with the Gauss-Bonnet term, which is the simplest term allowing the equation of motion to be at the 2nd order. The model wi analyze is the dilaton Einstein Gauss-Bonnet theory. We study the properties of this model, especially the black holes, and the cosmological implications in the early universe.

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Session Classification: Morning session