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Taishi Kawamoto: AdS3 wormhole via non-local TT bar deformation or imaginary Janus deformation

Monday, July 14, 2025 2:30 PM (30 minutes)

Wormholes are important objects in quantum gravity. Especially traversable wormhole in AdS is important since they casually relate the distinguished boundary theories and allows information transfer among them. So far the constructing wormhole is typically done in low dimensional gravity related to SYK model or the level of gravitational perturbation. In this talk, we introduce two novel deformations in two dimensional CFTs and their gravity duals which include wormholes. The first one is non-local TT bar and the other is a kind of Janus defrormation with imaginary coupling. This talk is based on J. High Energ. Phys. 2025, 86 (2025)(arXiv:2502. 03531).