

茨城大学素粒子論研究室セミナー

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日時：2020/2/10 (月) 16:00-17:00

場所：E-301

Title： $T\bar{T}$ deformation and JT gravity

Abstract：Recently, $T\bar{T}$ deformations in 2D quantum field theories have been well studied. In particular, as shown by S. Dubovsky et al, when 2D gravity is coupled, gravitational perturbations can be regarded as $T\bar{T}$ deformations of the matter sector and the S-matrix gets a gravitational dressing factor.

In this talk, I will show that gravitational perturbations in the Jackiw-Teitelboim (JT) gravity can be seen as $T\bar{T}$ deformations and argue a generalization of Dubovsky et al's work from flat space to AdS_2 .

This is based on the collaboration [1906.03865](#) and a work in progress with T. Ishii, S. Okumura and J. Sakamoto.