

# Perturbative Strings on Various Curved Backgrounds from String Geometry Theory

*Thursday, 9 December 2021 17:00 (20 minutes)*

One perturbative string theory is defined on one fixed background. On the other hand, it is necessary that a non-perturbative formulation of string theory includes all the perturbatively stable vacuum and perturbative string theories on various curved backgrounds are derived from the single theory. In this talk, we derive perturbative string theories on various curved backgrounds from the fluctuations around fixed backgrounds in a single string geometry theory, which is one of the candidates of the non-perturbative formulation of string theory.

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**Session Classification:** Short talk