YTF 21



Contribution ID: 139

Type: 20 minutes talk

Type II Calabi-Yau compactifications in general spacetime signature

Friday, 17 December 2021 15:45 (30 minutes)

String Theory is a web of perturbatively defined 10 dimensional theories related to each other by various dualities such as "T-duality". When considering a "timelike" T-duality we uncover theories that realize all spacetime signatures.

In this talk, I will motivate the study of dynamic spacetime signature in a quantum gravity context and present the theories obtained in 4 dimensions when compactifying these exotic theories on a Calabi-Yau manifold, as well as the web of dualities relating them.

I will also give an introduction to the "Special geometry" of the scalar sector and, if time permits, I will describe how this formalism allows one to relate certain black hole solutions to cosmological ones.

Could you please give the most relevant category for your talk?

Strings

Will you be pre-recording your talk?

No

Would you be interested in receiving feedback on your presentation?

Yes

Are you happy for your talk to be recorded?

Yes

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Session Classification: Full-length talks