



ID de Contribution: 119

Type: Non spécifié

Open-Closed Correspondence of K-theory and Cobordism

mercredi 27 avril 2022 11:45 (25 minutes)

Non-trivial K-theory groups and non-trivial cobordism groups can lead to global symmetries which are conjectured to be absent in quantum gravity. In this talk, a correspondence between the two groups is proposed. It is inspired by open-closed string duality and relies on a mathematical result known as Conner-Floyd isomorphism. As an application, it is shown how to recover known tadpole cancellation conditions of string theory from a purely bottom-up perspective. In the spirit of the swampland program, this can be used to give further support to the string lamppost principle.

Type of contribution

Contributed Talk only

Auteur principal: NICCOLÒ, Cribiori (MPI Munich)

Orateur: NICCOLÒ, Cribiori (MPI Munich)

Classification de Session: Contributed talks

Classification de thématique: Contributed talks