



Contribution ID: 8

Type: **Long Talk (20 mins)**

Courant Algebroid Relations and T-duality

Friday, December 15, 2023 11:30 AM (20 minutes)

We develop a new approach to T-duality based on Courant algebroid relations which subsumes the usual T-duality as well as its various generalisations. We introduce the relation associated to Courant algebroid reduction, and describe how to transfer the information of generalised metrics through the reduction, via transverse generalised metrics and isometries. This is used to construct T-dual backgrounds as generalised metrics on reduced Courant algebroids which are related by a generalised isometry. There is an existence and uniqueness result for generalised isometric exact Courant algebroids coming from reductions.

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Strings

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