Contribution ID: **165**                                           Type: **5 minutes talk**

# Journeys through the moduli space using generalised geometry

*Thursday, 16 December 2021 14:29 (7 minutes)*

The aim of this talk is to give the audience some understanding of Generalised Geometry and how it helps with the study of supergravity backgrounds in string theory and M-theory. I will set the stage by looking at a toy model of a 2 dimensional background spacetime with a GL(2, R) structure group before discussing a more realistic supergravity background with a non-trivial NS – NS flux. I will focus in particular on a simple application of Generalised Geometry in the context of the AdS distance conjecture proposed Lüst, Palti and Vafa in [1] to give the audience a flavour of how powerful this geometric approach can be.

[1] Dieter Lüst, Eran Palti, and Cumrun Vafa. Ads and the swampland. Physics Letters B, 797, 2019

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

Gravity

## Will you be pre-recording your talk?

## Are you happy for your talk to be recorded?

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**Session Classification:**   Gong show talks