Contribution ID: **165**   Type: **not specified**

T-duality building blocks in stringy corrections

Thursday 12 January 2023 16:50 (30 minutes)

T-duality has been shown to constrain the higher derivative corrections of string theory. We revisit the problem of understanding the T-duality constraints imposed on the alpha prime corrections using the language of a torsionful connection to construct O(d,d) invariant building blocks for general d-dimensional torus compactifications. This also suggests that there are in fact some hidden geometrical structures in string theory and use this to revisit the heterotic and bosonic ten-dimensional string action at order alpha prime.

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Session Classification: 30' Contribution