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Chiral anomalies and their implications in 10d non-supersymmetric sp(16) gauge theories.

Tuesday, 25 June 2024 17:45 (15 minutes)

We revisit the Green-Schwarz (GS) mechanism in the 10d Sugimoto model and explicitly show the consistency with anomaly-inflow onto the branes involved in the GS-mechanism. The branes'degrees of freedom establishes Sp(16) as the global gauge group of the 10d non-supersymmetric theory. We then interpret and generalize the computation with a bottom-up perspective, to study the consistency of non-supersymmetric sp(16) gauge theories with different chiral spectra coupled to gravity. Our findings suggest that it is surprisingly challenging to have a consistent theory with Sp(16)/Z2 gauge group.

Presenter: LAROTONDA, Vittorio

Session Classification: Parallel session