Contribution ID: **240** Type: **not specified**

Dynamical Cobordism and a new brane-like defect

Thursday 29 September 2022 14:00 (20 minutes)

The Cobordism Conjecture postulates that the cobordism classes in a consistent theory of quantum gravity should be trivial, possibly predicting new stringy defects. In this light, I will discuss the Dynamical Cobordism induced by the backreaction of a 9-dimensional non-supersymmetric, positive tension domain wall in string theory. Breaking the cobordism symmetry requires a 7-brane defect capping off spacetime. I will provide an explicit description of this defect, in terms of a new non-isotropic solution of the dilaton gravity equations of motion.

Summary

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Session Classification: Parallel Session Strings

Track Classification: Strings & Mathematical Physics