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## **¡The R7-Brane is Stable!**

Monday 7 July 2025 15:30 (30 minutes)

The Swampland Cobordism Conjecture predicts the existence of several novel non-supersymmetric objects. These include the existence of a domain wall between IIA and IIB string theories, as well as R7-branes in F-theory in which the F-theory torus undergoes a reflection in winding around the R7-brane. In this talk we argue that the long string probe characterization of the IIA/IIB wall is an interface between different GSO projections. Moreover, wrapping this GSO wall on a bubble-like configuration with IIB on the outside leads to a collapsing configuration with stable endpoint an R7-brane; a GSO vortex. We also sketch some potential applications in string compactification and model building. Based on joint work with McNamara, Parra-Martinez, and Torres.

Presenter: HECKMAN, Jonathan