

FLASY 2025 - 11th Workshop on Flavour Symmetries and Consequences in Accelerators and Cosmology



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Topological Defects from Non-Abelian Discrete Symmetries

Friday, 4 July 2025 10:00 (30 minutes)

I will discuss the formation and properties of domain walls arising from the spontaneous breaking of non-Abelian discrete symmetries, with a focus on the group S_4 , commonly used in models of lepton flavour. Such symmetry breaking leads to a rich vacuum structure and the emergence of various types of domain walls. While some of these walls are unstable and decay, others can be longer lived and eventually annihilate, releasing gravitational waves. I will explore the signatures of these processes and their potential relevance to recent gravitational wave observations.

Presenter: TURNER, Jessica (Durham University)

Session Classification: Morning session