



UNIVERSITY OF MIAMI
COLLEGE of
ARTS & SCIENCES

Miami Physics Conference 2025

Date: Dec 12-18, 2025
Location: Lago Mar Resort
Affiliation: University of Delaware

Ilia Gogoladze

Flavour Symmetry and the Gravitational Wave Background

Abstract

We consider spontaneous breaking of flavour symmetry leading to the creation of metastable cosmic strings. In this scenario, the gravitational waves background produced by metastable flavour cosmic strings could be one of the possible candidates for explaining the observations from pulsar timing array (PTA) experiments.