

Miami Physics Conference 2024

Date: Dec 12-19, 2024

Location: Lago Mar Resort

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Unparticle Decay

Abstract

Unparticle decay into Standard Model particles is a subtle question due to the complex structure of the unparticle propagator. However, understanding this decay process is crucial for studying the cosmology and collider phenomenology of unparticles. To address this, I will present three models to understand unparticle decay: a quantum mechanics toy model, a flat 5D model, and a 4D strongly coupled conformal field theory (CFT).