

Is the muon a third family lepton?

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We discuss a new possible family structure for the Standard Model, where the muon is assigned to the third family. This has no consequence in the Standard Model itself, were this assignment is simply a matter of convention. However in physics beyond the Standard Model this reveals potentially meaningful patterns in the masses and mixings, while pointing to precise and testable predictions for experiments.

Auteur principal: DEANDREA, Aldo (IP2I - Université Lyon 1)

Co-auteurs: CACCIAPAGLIA, Giacomo (IP2I Lyon); VATANI, Shahram (GGI Firenze)

Orateur: DEANDREA, Aldo (IP2I - Université Lyon 1)

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