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Lepton masses and mixing from S3 modular symmetry - an mcmc analysis

Tuesday, 17 December 2024 10:30 (20 minutes)

This work presents a detailed analysis of the origin of lepton masses and mixing angles within the framework of S3 modular symmetry.
The main goal is to achieve a consistent theoretical framework for the hierarchy of lepton masses and mixing angles, leveraging the symmetry properties of the modular group.
The model analysis is carried out using the Markov Chain Monte Carlo method to improve the parameter space testing and obtain optimal values compatible with experimental data on leptons.

Primary author: MARCONE, Francesco

Presenter: MARCONE, Francesco

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