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## Classification of Modular UV Completions via cLFV observables

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Modular symmetries have emerged as a promising and elegant approach to the flavor problem, with the discrete group  $A_4$  as a benchmark example. In this work, we study the impact of modular UV interactions generating dimension-6 SMEFT operators with leptons. Restricting to extensions with a single mediator and at most one modular form insertion, we classify the possible scenarios and compute their one-loop matching. We show how charged lepton flavor violating observables provide stringent constraints, offering a systematic path to test modular flavor symmetries in the future.

### Abstract

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