

Multi-component dark matter from Minimal Flavor Violation

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Based on JHEP 11 (2024) 114 with Federico Mescia (INFN LNF), Keyun Wu (ICCUB, Barcelona)
+ongoing works with Alessandro Dondarini (Florence), Giacomo Landini (IFIC Valencia)
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Summer Institute 2025 @ Yeosu, Korea
August 21st, 2025

What if dark matter has flavor?

of matter fermions

I consider a framework where **DM fields are charged under SM flavor groups**

and show dark matter can naturally be

- stable

- multi-component

Also discuss some phenomenological implications of such multiple dark states

