

FLASY 2018: 7th Workshop on Flavour Symmetries and Consequences in Accelerators and Cosmology



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SUSY Flavour in an $A_4 \times SU(5)$ model of muon $g-2$ and Dark Matter

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We investigate the structure of different softs terms in the context of an $A_4 \times SU(5)$ SUSY GUT model. While starting from a minimal flavour violation (MFV) benchmark point which lies in the correct region for dark matter constraint and giving the experimental value of muon $g-2$, we perform a scan over the different off-diagonal soft terms and study the impact of the flavour and dark matter constraint on the flavour violating parameters. Since $SU(5)$ enforces relations between the hadronic and leptonic parameters, interesting restrictions can arise from both sectors. This study shows how flavoured SUSY GUTs may be distinguished via their flavour predictions.

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