Société Française de Physique

ID de Contribution: **42** Type: **Non spécifié**

Solving (g-2) with a new light gauge boson

vendredi 22 octobre 2021 10:09 (23 minutes)

"Final" abstract will be provided as a separate file

Even if the SM describes fundamental interactions and particles extremely well, there are still some theoretical caveats and discrepancies between theory and observation.
Starting from the anomalous magnetic moment of charged leptons (muon and electron), we minimally extend the SM via a new light gauge boson (Z') and work under the hypothesis of strictly flavour violating couplings to leptons.
Taking into account several flavour observables, we can constrain our model and make predictions for several observables.

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Classification de Session: Theory

Classification de thématique: Theory