

After g-2, what next for $U(1)_{L_\mu-L_\tau}$

In this talk I will discuss recent changes in the allowed parameter space for the $U(1)_{L_\mu-L_\tau}$ extension to the Standard Model. I will argue that despite the (g-2) anomaly disappearing, this model still holds a lot of potential, in particular as a portal to dark matter. This provides vital motivation for a future muon collider. Furthermore, I will present ongoing work with the TRIDENT collaboration, where we determine the future experimental sensitivity to such model.

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