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Type: **Invited Talk**

The Mu-MASS experiment at PSI: Current status and latest results

Monday, 17 October 2022 15:30 (30 minutes)

I will present our recent measurement of the $n=2$, Muonium Lamb Shift of $1047.2(2.5)$ MHz, which comprises an order of magnitude improvement upon the last determinations and matches with theory within one sigma. This allows us to set limits on Lorentz and CPT violation in the muonic sector, as well as on new physics coupled to muons and electrons which could provide an explanation of the muon $g-2$ anomaly. I will discuss the future prospects of such a measurement and the current status of the 1S-2S experiment.

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