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Probing TeV-scale physics in an ion trap

Friday, 29 September 2023 12:15 (30 minutes)

We recently placed a new limit on parity-violating physics with a unique tabletop experiment which combines trapped molecular ions, rotating bias fields, orientation-resolved detection, and over a dozen lasers. In this talk I will give an overview of our measurement and methods for probing new physics at energy scales exceeding the reach of the LHC.

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