Contribution ID: 9 Type: Talk

## Antihydrogen laser spectroscopy to 13 significant figures and beyond

Wednesday 12 June 2024 10:45 (35 minutes)

We describe work at the ALPHA collaboration at CERN that is leading to a 13 significant figures measurement of the 1S-2S transition in antihydrogen with a physics-driven lineshape theory. A future comparison of matter and antimatter in this system at 15 figures or more will be discussed in conjunction with techniques being developed at UFRJ to load hydrogen into the same antihydrogen trap.

Author: LENZ CESAR, Claudio (Federal University of Rio de Janeiro (BR))

Presenter: LENZ CESAR, Claudio (Federal University of Rio de Janeiro (BR))

**Session Classification:** Session 5