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## Laser spectroscopy of antihydrogen in ALPHA

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CPT symmetry demands that the spectrum of antihydrogen be identical to that of its ordinary matter counterpart. Performing laser spectroscopy on antihydrogen atoms and comparing to the hydrogen spectrum therefore allows for unique and very precise tests of this fundamental symmetry. The most precise such comparison so far is of the 1S-2S transition, which has been recently measured in antihydrogen with a relative precision of  $2 \times 10^{-12}$ . In this talk, I will review the latest results in antihydrogen spectroscopy from the ALPHA collaboration, and give an outlook to future measurements.

### Content of the contribution

Experiment

**Primary authors:** RASMUSSEN, Chris (CERN); ALPHA COLLABORATION, on behalf of the

**Presenter:** RASMUSSEN, Chris (CERN)

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