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【357】 1S-2S Spectroscopy of Positronium

Thursday 24 August 2017 18:00 (15 minutes)

The upcoming measurement at the ETH Zurich Slow Positron Beam aiming at 0.5 ppb precision will be presented. The precursor measurement with a continuous positron beam has been upgraded to include a pulsed beam and a time-of-flight detection scheme to correct for the major systematic error of the experiment, the second order Doppler shift. Additionally the experiment newly uses a field free region avoiding Zeeman and Stark effects.

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