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Hydrogen Lambshift

Tuesday 22 October 2019 11:45 (30 minutes)

We have measured the Lamb shift in atomic hydrogen using a new FOSOF (Frequency Offset Separated Oscillatory Fields) method. We measure the $2S_{1/2}(F=0)$ -to- $2P_{1/2}(F=1)$ interval to be 909.8717(32) MHz, from which an rms proton charge radius of 0.833(10) fm can be determined.

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