

Light shift suppression in rubidium two-photon optical references

We demonstrate a method for suppression of the light shift in rubidium two-photon spectroscopy based on digital signal processing of the fluorescence signal to generate an error signal with lock point independent of probe power.

Authors: KITCHING, John ((National Institute of Standards and Technology); HUMMON, Matthew (National Institute of Standards and Technology); ANDEWEG, Yorick (NIST and University of Colorado, Boulder)

Presenter: HUMMON, Matthew (National Institute of Standards and Technology)

Track Classification: Molecular, Atomic, Ion and Nuclear Clocks