

Abstract Submitted
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Optical Foucault Pendulum: photons and the Coriolis effect

CHARLES ROGERS, Texas A&M University - Commerce, RICHARD SELVAGGI, APS member — Consider the motion of photons within a rotating photon clock. Will light behave as a particle as it reflects back and forth between two parallel mirrors rotating in a manner similar to the motion of a Foucault pendulum? An experiment to measure the trajectory of light in a rotating cavity is presented. Implementation details for this experiment and initial data collected are also reported.

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