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Progress toward improved Lorentz symmetry tests with H and noble gas masers YULIA GUREVICH, ALEX GLENDAY, DAVID PHILLIPS, RONALD WALSWORTH, Harvard-Smithsonian — Measurements using atomic clocks can be sensitive to violations of Lorentz and CPT symmetry through differential frequency changes as the direction or velocity of the clocks change with respect to an inertial frame. We will present the status of experiments underway utilizing atomic hydrogen masers and the two-species noble gas masers which will improve constraints on potential Lorentz and CPT violations in the proton and neutron respectively.

Ronald Walsworth

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