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Abstract for an Invited Paper for the DAMOP19 Meeting of the American Physical Society

## Norman F. Ramsey Prize Talk: Quantum matter and atomic clocks

JUN YE, JILA, University of Colorado and National Institute of Standards and Technology

Building on advanced laser science and precise state engineering of quantum matter, a new generation of optical atomic clocks is advancing measurement capabilities to new levels that promise greater opportunities for probing fundamental and emerging phenomena.