

Atomic clocks

General

- Optical atomic clocks
 , N. Poli et al., arXiv:1401.2378v2 (2014)
- Optical atomic clocks
 , A.D. Ludlow et al., Reviews of modern physics **87** (2015)
- Fritz Riehle, Frequency Standards, WILEY-VCH Verlag GmbH & Co. KGaA, 2004
- Optical dipole trap:
[optical_dipole_trap.pdf](#)

Elements

- Best Clock so far (Stand 11/2016)
<http://www.nature.com/nature/journal/v506/n7486/pdf/nature12941.pdf>
 doi:10.1038/nature12941
- Systematic Evaluation for this <http://www.nature.com/articles/ncomms7896.pdf>
- Best Clock Comparison so far (Stand 11/2016) Comparison of Two Independent Sr Optical Clocks with 1×10^{-17} Stability at 10^3 s:
[physrevlett.109.230801.pdf](#)
- **Mercury:**
 - Comparing a mercury optical lattice clock with microwave and optical frequency standards
 , R. Tyumenev et al., arXiv:1603.02026v2 [physics.atom-ph] 13 Nov 2016

Application of Clocks

- Realization of a timescale with an accurate optical lattice clock:
[optica-3-6-563.pdf](#)
- Search for New Physics with Atoms and Molecules: <https://arxiv.org/pdf/1710.01833.pdf>

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