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Strontium optical lattice clocks at LNE-SYRTE

lundi 22 février 2016 11:20 (20 minutes)

We report progress towards practical optical frequency standards by demonstrating that an OLC using strontium atoms, with an accuracy of 4.1×10^-17 can be reliably operated over time periods of several weeks, with a time coverage larger than 80%, which can be considered as nearly continuous, given the stability of local oscillators. We take advantage of these long integration times to compare one of our strontium clocks with two atomic fountains with a statistical uncertainty below 10^-16.

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