

**Clara Zyskind - Development
of an optical lattice clock
using bosonic isotopes of
mercury**

**Rapport sur les
contributions**

ID de Contribution: 1

Type: **Non spécifié**

Development of an optical lattice clock using bosonic isotopes of mercury

jeudi 29 juin 2023 11:00 (1h 30m)

Bosonic isotopes of mercury can help circumventing limitations of the fermionic ^{199}Hg used so far in optical lattice clocks, and they have never been probed yet. In this seminar, we will report our experimental work towards using bosonic isotopes. In particular, we will describe key modifications of our experimental setup required to enable the search for the clock transition in bosonic isotopes. We will also give a user's view in an European clock comparison campaign using optical fiber networks and we will report on our preliminary results for ^{199}Hg during the last March/April 2023 campaign.

Orateur: Mme ZYSKIND, Clara (LNE-SYRTE)