

Towards laser excitation of the low-energy nuclear transition in ^{229}Th

Wednesday, 18 October 2023 10:30 (30 minutes)

We describe our experiments towards the resonant laser excitation of the 8.3 eV nuclear transition in ^{229}Th with the motivation to develop a highly accurate nuclear optical clock for metrology and tests of fundamental physics.

Primary author: Dr PEIK, Ekkehard (PTB)

Presenter: Dr PEIK, Ekkehard (PTB)

Session Classification: Nuclear Clocks

Track Classification: Molecular, Atomic, Ion and Nuclear Clocks