24th Australian Institute of Physics Congress



Contribution ID: 601 Type: Talk (preferred)

A laser-cooled optical beam clock for portable applications

Wednesday 14 December 2022 16:45 (15 minutes)

We demonstrate the first measurement of the 10-mHz wide ytterbium clock transition to be made on an atomic beam, and report on the development of a portable optical atomic clock based on this technique.

Author: OFFER, Rachel

Co-authors: Prof. LUITEN, Andre (University of Adelaide); Dr HILTON, Ashby (University of Adelaide); Dr KLANTSATAYA, Elizaveta (University of Adelaide); Dr BOURBEAU HEBERT, Nicolas (University of Adelaide)

Presenter: OFFER, Rachel

Session Classification: Precision and Quantum Sensing Workshop

Track Classification: PQS2022: PQS: Precision and Quantum Sensing Workshop