24th Australian Institute of Physics Congress



Contribution ID: 736

Type: Poster

Towards Bragg-based gravimetry on compact devices: A readout delay free scheme for measuring phase shifts with spatial fringes matter-wave interferometry

Tuesday 13 December 2022 18:45 (15 minutes)

We present a novel atom interferometry scheme that allows readout-delay-free measurement by extracting phase information from overlapped spatial fringes to measure gravity on compact devices using Bragg pulses.

Author: BEN AICHA, Yosri

Co-authors: CLOSE, John (Supervisor); EAGLE, Rhys; THOMAS, Ryan (The Australian National University); LEGGE, Samuel (Australian National University); HAINE, Simon; MEHDI, Zain (The Australian National University)

Presenter: BEN AICHA, Yosri

Session Classification: Poster session

Track Classification: ANZCOP: ANZCOP: Atom optics