

Contribution ID: 31

Type: Gong show talk (5 mins)

Atom interferometry for fundamental physics

Thursday, 15 December 2022 14:40 (10 minutes)

Atom interferometry is an exciting new technology employing quantum sensors to make precision measurements in key tests of fundamental physics. Upcoming terrestrial long-baseline experiments such as AION and MAGIS will access new parameter spaces in searches for dark matter and gravitational waves, including sensitivity to the mid-band frequency range between LIGO and LISA. The talk will give a very brief overview of the physical principles behind atom interferometry and how it can be used to probe ultra-light dark matter.

Type of presentation

5 minute talk

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Other categories:

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Phenomenology

Primary author: CARLTON, John (King's College London)

Presenter: CARLTON, John (King's College London)

Session Classification: Gong Show Talks