

## Impact of external vibrations on long baseline atom interferometers

*Thursday 17 July 2025 11:15 (20 minutes)*

Long baseline atom interferometers, such as the AION-10 device currently being planned in Oxford, show promise as methods of detecting both untrilright dark matter, gravitational waves and other potential astro-physical signals. However, the readings from these instruments are very noisy due to the impact of gravity gradient noise from the external environment. This work aims to characterise this noise.

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**Session Classification:** Student Talks