## 24th Australian Institute of Physics Congress



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## 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.

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