



Contribution ID: 557

Type: **Poster**

Measuring Rotation in a Bose Einstein Condensate with Phonon Interferometry

Tuesday 13 December 2022 18:45 (15 minutes)

We demonstrate the use of a ring-shaped Bose-Einstein condensate as a rotation sensor by measuring the interference between two counter-propagating phonon modes.

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Session Classification: Poster session

Track Classification: AIP Congress: AIP: Atomic and Molecular Physics