

## Concentric-Ring Atom Interferometer

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We investigate applicability of a novel atom interferometer consisting of two concentric rings for precision measurements. The investigation is carried out with a computer simulation of Gross-Pitaevskii equations which monitors low energy vibrational modes inside of the interferometer under various ring geometries. From each eigenmodes, the fringe visibility between thermal ensemble and degenerate Bose gas are compared.

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