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Nondegenerate internal squeezing: An all-optical, loss-resistant quantum technique for gravitational-wave detection

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The detection of kilohertz-band gravitational waves promises discoveries in astrophysics, exotic matter, and cosmology. We study how to theoretically improve future interferometric gravitational-wave detectors' kilohertz-band sensitivity which is limited by quantum noise.

Primary author: GARDNER, James

Co-authors: SLAGMOLEN, Bram; MCCLELLAND, David; YAP, Min Jet; CHUA, Sheon; ADYA, Vaishali

Presenter: GARDNER, James

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