

Compact and Manufacturable Ultrastable Optical Reference Cavities: 10^{-14} Stability in Less Than 10 mL Volume

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We have developed several sub-10 mL vacuum-gap Fabry-Perot cavities that provide $\sim 10^{-14}$ fractional frequency stability and ultralow phase noise, using scalable lithographic techniques to fabricate million-finesse mirrors.

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