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Cavity optomechanics is a branch of physics which focuses on the interaction between light and mechanical objects on low-energy scales. It is a cross field of optics, quantum optics, solid-state physics and materials science. The motivation for research on cavity optomechanics comes from fundamental effects of quantum theory and gravity, as well as technological applications. The name of the

[10.1103/RevModPhys.86.1391 - American Physical Society](#)

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[Parametric Normal-Mode Splitting in Cavity Optomechanics](#)

Parametric Normal-Mode Splitting in Cavity Optomechanics J.M. Dohbrindt,¹ I. Wilson-Rae,² and T.J. Kippenberg^{1,3,*} ¹Max Planck Institut für Quantenoptik, D-85748 Garching, Germany

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The main objective of cavity optomechanics is to achieve quantum-limited detection of mechanical motion. Quantum-limited motion transducers are likely to have the same success as quantum-limited photon detectors in the field of quantum optics and will lead to new advances in both fundamental science and technology. The significance of the research program lies in experimentally approaching the

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Cavity nano-optomechanics: a nanomechanical system in a high finesse optical cavity Sebastian Stapfner a^{*,} Ivan Favero b,[†] David Hunger a, Philipp Paulitschke a, Jakob Reichel c,

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[Cavity Optomechanics: Back-Action at the Mesoscale Cavity Quantum Optomechanics](#). A mechanical oscillator has a set of quantum states with energies ϵ_N , where N is the number of mechanical quanta, and $N = 0$ denotes the quantum ground state. For a mechanical oscillator in the ground state, the ground state energy, ϵ_0 , gives rise to the zero-point motion, characterized by the length scale l_z . As

noted earlier, this length scale sets the SQL of mirror
optomechanics of deformable optical cavities
sign of the cavity detuning (that is, the photon-spring
constant F can be adjusted to be positive or negative). The
1970 experimental results of Braginsky and co-workers
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Cavity Optomechanics with Whispering-Gallery-Mode

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Here we provide a succinct introduction to cavity
optomechanics with WGM resonators and review their use
for the measurements with an imprecision below that at the
standard quantum limit, cooling to the quantum regime
and quantum coherent coupling. Moreover,
optomechanically induced transparency (OMIT) in these
resonators is described, which forms the basis for a
number of quantum

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