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### **Cavity Optomechanics Nano And Micromechanical**

During the last few years cavity-optomechanics has emerged as a new field of research. This highly interdisciplinary field studies the interaction between micro and nano mechanical systems and light. Possible applications range from novel high-bandwidth mechanical sensing devices through the

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Cavity Optomechanics: Nano- and Micromechanical Resonators Interacting with Light Markus Aspelmeyer, Tobias J. Kippenberg, Florian Marquardt (eds.) During the last few years cavity-optomechanics has emerged as a new field of research. This highly interdisciplinary field studies the interaction between micro and nano mechanical systems and light.

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## **Cavity Optomechanics: Nano- and Micromechanical Resonators ...**

Cavity Optomechanics: Nano- and Micromechanical Resonators Interacting with Light is a collection of 12 invited articles by leading experts from both sides of the Atlantic. It is edited by Markus Aspelmeyer, Tobias Kippenberg, and Florian Marquardt, researchers who have achieved some of the field's most significant recent discoveries.

## **Cavity Optomechanics: Nano- and Micromechanical Resonators ...**

We review the field of cavity optomechanics, which explores the interaction between electromagnetic radiation and nano- or micromechanical motion. This review covers the basics of optical cavities and mechanical resonators, their mutual optomechanical interaction mediated by the radiation pressure force, the large variety of experimental systems which exhibit this interaction, optical measurements of mechanical motion, dynamical backaction amplification and cooling, nonlinear dynamics ...

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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.

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Abstract:(arXiv) We review the field of cavity optomechanics, which explores the interaction between electromagnetic radiation and nano- or micromechanical motion.

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Cavity optomechanics may also enable advances in several other areas. First, the ability to provide targeted cooling of nano- and micromechanical oscillators (which are otherwise part of devices at...

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The radiation pressure force can even be enhanced in so-called cavity optomechanical devices. These devices exploit the interaction between light and micro- or nanomechanical resonators to alter the dynamical properties of either of the two systems.

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### **Experimental platform for shaping the interaction between ...**

We have designed a micromechanical resonator suitable for cavity optomechanics. We have used a micropillar geometry to obtain a high-frequency mechanical resonance with a low effective mass and a very high quality factor. We have coated a 60- $\mu\text{m}$  diameter low-loss dielectric mirror on top of the pillar and are planning to use this micromirror as part of a high-finesse Fabry-Perot cavity to ...

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### **Cavity Optomechanics: Nano- And Micromechanical Resonators ...**

The field of cavity optomechanics, in which mechanical motion is well coupled to an optical resonator, has seen rapid progress in recent years, with applications in particular to utilizing and achieving a quantum regime . Experimenters have harnessed unique mechanical resonators with both high resonant frequencies, which favor the observation ...

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In parallel with the developments employing electrically transduced nanoresonators, the field of cavity optomechanics has made critical advances 14,15, approaching technological maturity.

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