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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, solidstate 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 field relates to the main effect of interest: the enhancement of radiation pressure interaction between I

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This approach ties cavity optomechanics to an independent development that has been garnering momentum since the late 1990s, which is concerned with measuring and controlling the motion of nano- and micromechanical oscillators using electrical and other non-optical coupling techniques.

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