



Contribution ID : 380

Type : Oral parallel contribution

Bichromatically driven Kerr-like cavities and vacuum squeezing generation.

Tuesday, 18 July 2017 18:45 (20)

Here we theoretically analyse the generation of strong vacuum squeezing in optomechanical, superconducting circuits and polariton cavities driven by a bichromatic field. This proposal has the following advantages over the usual proposals with monochromatic driving: the process is unrelated to bistability which is good for stability issues and the reduction of fluctuations takes place at a non-injected frequency, thus one obtains a squeezed vacuum state

Primary author(s) : Prof. DE VALCÁRCEL GONZALVO, Germán J. (Departament d'Òptica, Universitat de València); Mr. GARCÉS MALONDA, Rafael (Departament d'Òptica, Universitat de València)

Presenter(s) : Mr. GARCÉS MALONDA, Rafael (Departament d'Òptica, Universitat de València)

Session Classification : Quantum Technologies: joint symposium of the Quantum Information and Quantum and Non-linear Optics specialised groups

Track Classification : Quantum and Non-linear Optics