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# Radiation Noise Quantum Electronics Louisell William

**quantum radiation pressure noise: exposing the quantum ...** - quantum radiation pressure noise: exposing the quantum mechanics of optomechanical interactions a dissertation submitted to the graduate faculty of the **quantum noise reduction for gravitational wave detectors ...** - quantum noise reduction for gravitational wave detectors: developing realistic interferometer schemes by mengyao wang a thesis submitted to the university of birmingham **hawking radiation and non-equilibrium quantum critical ...** - hawking radiation and non-equilibrium quantum critical current noise julian sonner 1, and a.g. green 2 1 damp, university of cambridge, cb3 0wa, u.k. & imperial college london, **radiation pressure noise and quantum optomechanics** - use light and radiation pressure to couple the nanomembrane to a cloud of cold atoms : • long atomic coherence times • comprehensive atomic physics «toolbox» to control the quantum **quantum noise and self-sustained radiation of pt-symmetric ...** - quantum noise and self-sustained radiation of pt-symmetric systems henning schomerus department of physics, lancaster university, lancaster, la1 4yb, united kingdom **suppression of quantum-radiation-pressure noise in an ...** - physical review a 88, 033805 (2013) suppression of quantum-radiation-pressure noise in an optical spring w. zach korth, 1haixing miao, , 2thomas corbitt,3 garrett d. cole,4 yanbei chen, and rana x. adhikari **interferometry beyond the quantum limit - gla** - stefan hild slide 7 what is quantum noise? ! quantum noise is comprised of photon shot noise at high frequencies and photon radiation pressure noise at low frequencies. **review: quantum noise in gravitational-wave interferometers** - review: quantum noise in gravitational-wave interferometers view the table of contents for this issue, or go to the journal homepage for more home search collections journals about contact us my iopscience you may also be interested in: quantum limits of interferometer topologies for gravitational radiation detection haixing miao, huan yang, rana x adhikari et al. squeezed light for the ... **the quantum origins of the free induction decay signal and ...** - the quantum origins of the free induction decay signal and spin noise d. i. hault and n. s. ginsberg institute for biodiagnosics, national research council, 435 ellice avenue, winnipeg, manitoba r3b 1y6, canada **quantum-noise reduction techniques in a gravitational-wave ...** - quantum-noise reduction techniques. in a gravitational-wave detector . aqis11 satellite session@kias. aug. 2011. tokyo inst of technology. kentaro somiya **quantum noise in gw detectors: a new hope - daniel holz** - outline • quantum noise basics • “quantum limits” in gw detection and how to surpass them • fundamental limit for general quantum measurements: **quantum noise in differential-type gravitational-wave ...** - radiation-pressure noise should be treated correctly in a fully quantum-mechanical way, in which the radiation-pressure noise could have the correlation with shot noise [8]. these two noises **quantum noise reduction using squeezed states in ligo** - quantum noise reduction using squeezed states in ligo by sheila e dwyer submitted to the department of physics on january 18th, 2013, in partial fulfillment of the **quantum noise in gravitational-wave interferometers** - 2 noise. for a free mirror of mass,  $m$ , and laser intensity,  $I_0$ , impinging on it, the power spectral density of position fluctuations due to back action (radiation pressure) is **frequency dependent squeezing for quantum noise reduction ...** - frequency dependent squeezing for quantum noise reduction in second generation gravitational wave detectors eleonora capocasa 10 novembre 2016. my thesis work is divided into two parts: participation in the virgo commissioning activity development of techniques for the reduction of quantum noise in second generation gw detectors 2. my thesis work is divided into two parts: participation in the ...

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