
Coherence Amplification And Quantum Effects In Semiconductor Lasers 1st Edition

quantum-coherence-enhanced surface plasmon amplification by ... - quantum-coherence-enhanced surface plasmon amplification by stimulated emission of radiation konstantin e. dorfman,1,2,* pankaj k. jha,1,3,† dmitri v. voronine,1,3 ... **destruction of quantum coherence in a nonlinear oscillator ...** - physical review a volume 39, number 9 may 1, 1989 destruction of quantum coherence in a nonlinear oscillator via attenuation and amplification d. j.daniel **quantum coherence effects in a raman amplifier** - the exact numerical results enable us to understand the relationship between the quantum coherence and amplification of pulse. the optical pulse in a doped **title quantum amplification and purification of noisy ...** - quantum purification protocols operate in the reverse way, by reducing the noise while attenuating the signal. here we investigate a scenario that interpolates between these two extremes. **journal id: tmap a 521594 corresponding author: c.h ...** - the relationship between the quantum coherence and 135 amplification of pulse. the optical pulse in a doped fiber can be transmitted or attenuated by changing the intensity of the control laser. the system serves as an optical router that can amplify a weak input pulse by appropriately preparing the state of the amplifier. 140 further possibilities include modulating the temporal profile and ... **entanglement, epr correlations, and mesoscopic quantum ...** - coherence-preserving nature of the amplification process the quantum correlations between the initial two photon en-tangled states are transferred into correlations between the **quantum heat engines and quantum coherence effects in ...** - (a) use of quantum coherence in ground state b,c to cancel absorption (b) the use quantum coherence in the excited state a,b to cancel emission o. kocharovskaya, phys. rep. 219, 175 (1992); **neutrino physics using quantum coherence - tpd.iheps** - neutrino physics using quantum coherence m. yoshimura @ okayama university, japan. m. yoshimura @ ihep, 2015/06/29 1 • introduction: recent developments of neutrino physics • quantum coherence: an example of adiabatic raman excitation • coherent quantum synchrotron • macro-coherent amplification of atomic process: renp . m. yoshimura @ ihep, 2015/06/29 . 2 . introduction • what have ... **probing ultrastrong coupling by coherent amplification of ...** - amplification of population transfer giuseppe falci mesoscopic transport and quantum coherence 2017 august 5-8, espoo finland istituto per la microelettronica e microsistemi with e. paladino, a. ridolfo, p.g. di stefano . rabi model two-level atom + single em. cavity mode i.i rabi ,prb 49, 324 (1936)i.i rabi ,prb 49, 324 (1936) wallraff et al., nature (2004)wallraff et al., nature (2004) in ... **quantum coherence on and off - vixra** - the maser (microwave amplification by stimulated emission of radiation), the older microwave frequency sibling of the laser, was invented in 1954. however unlike lasers, which have become **coherence and quantum optics - home - springer** - theories, optical coherence, coherence effects in spontaneous emission, light scattering, optical correlation and fluctuation measurements, coherent light interactions and quantum noise. **ultrafast dynamics of surface plasmon nanolasers with ...** - nonlinear dynamics will help improve the performance and amplification efficiency of spasers. ... investigate the effects of quantum coherence induced by an external coherent drive on spaser dynamics and show that quantum coherence improves sensitivity. our results provide insight into the spaser dynamics and can be used towards extending the feedback laser imaging techniques to the nanoscale ... **phonon coherence and its effect on thermal conductivity of ...** - quantum mechanics came into picture in the early 1900s and coherence soon became associated with concepts such as particle-wave duality and indistinguishability. **origin of quantum noise and decoherence in distributed ...** - information that can further reduce the coherence. here we analyze the effects of decoherence in a phase-insensitive distributed amplifier by using perturbation theory to calculate the state of the entire system including the atomic media. for an initial coherent state, tracing over the atomic states allows the reduced density matrix of the field to be expressed as a mixture of squeezed ...

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