

Exercises on Quantum Optics – Problem Set 6 Autumn Term 2011

(Dated: 21. October 2011 – Please hand in solutions before Monday, 31. October 2011, 10:00)
(Letterboxes are located in the staircase of HPF D-floor)

I. QUANTUM NON-DEMOLITION MEASUREMENT OF THE PHOTON NUMBER IN A CAVITY

Atoms excited to Rydberg states can be used as probes for measuring the photon number in microwave cavities. Idea and implementation are described in [R1,R2], and summarized in figure 1.

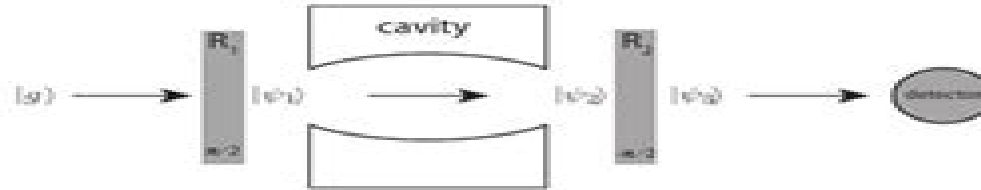


FIG. 1: The atoms are first prepared in state $|g\rangle$ and velocity selected in order to fix the interaction time with the cavity field. Before entering the cavity, a $\frac{\pi}{2}$ pulse is applied in zone R_1 , resulting in the transition $|g\rangle \rightarrow |\psi_1\rangle = \frac{1}{\sqrt{2}}(|g\rangle + |e\rangle)$. During its flight through the cavity the atoms interact with the quantized field, resulting in state $|\psi_2\rangle$. After passing through the cavity, the inverse of the first pulse is applied in zone R_2 , giving state $|\psi_3\rangle$. Subsequently, the atomic state is measured in a selective ionization process in the detector, which discriminates between states $|g\rangle$ and $|e\rangle$.

A. Jaynes-Cummings Hamiltonian in the dispersive approximation

We consider first the interaction of an atom with the field inside the cavity. We consider that the atom is a two-level system coupled to a single mode of the electromagnetic field. The coupled system atom-field can be described by the Jaynes-Cummings Hamiltonian :

$$H_{JC} = \hbar\omega_c a_c^\dagger a_c + \frac{\hbar\omega_{ge}}{2} \sigma_x + \hbar g (a_c \sigma_+ + a_c^\dagger \sigma_-) \quad (1)$$

where a_c and a_c^\dagger are ladder operators of the field in the cavity, and σ_x are the Pauli matrices. $\hbar\omega_{ge}$ is the energy difference between the ground and excited state of the atom and ω_c is the angular frequency of the field in the cavity. We will consider the situation where the detuning $\Delta = \omega_{ge} - \omega_c$ is much larger than the coupling g , and reduce the full Hamiltonian to an effective form valid to first order in the small parameter $\frac{g}{\Delta}$.

We introduce the unitary transformation :

$$U = e^{\frac{i}{\hbar} D} \quad (2)$$

where the generator of the transformation is :

$$D = a_c \sigma_+ - a_c^\dagger \sigma_- \quad (3)$$

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Miguel Orszag, Juan Carlos Retamal



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Who's who in European Research and Development ,1997

The Quantum Optics Problem Solver Miguel

Orszag, Juan Carlos Retamal, 2016-05-09 The book is a collection of solved problems in Quantum Optics It deals with a variety of topics which are very relevant in the most recent advances of this explosive field Semiclassical Theory Lasers and Micromasers Master Equations in the case of Systems interacting with Reservoirs Atom Optics Quantum Non Demolition Measurements Cold Ions Quantum Trajectories and Decoherence are among the topics covered

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