

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.

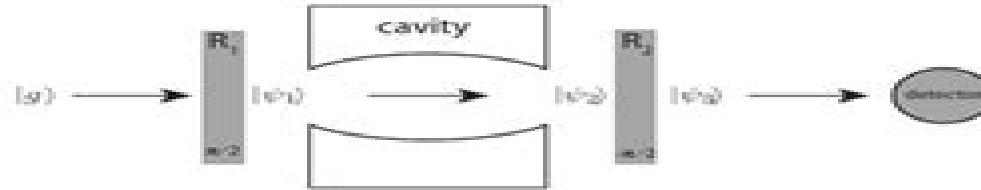


FIG. 1: The atoms are first prepared in state $|g\rangle$ and velocity selected in order to fix the interaction time with the cavity field. Before entering the cavity, a $\frac{\pi}{2}$ pulse is applied in zone R_1 , resulting in the transition $|g\rangle \rightarrow |\psi_1\rangle = \frac{1}{\sqrt{2}}(|g\rangle + |e\rangle)$. 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 $|\psi_1\rangle$. 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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H Kauffman



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