

Symbols for HOM paper

Symbol	Description
D_t	Trigger photon detector.
D_a, D_b	Detector at the two arms A and B of the HOM. Arm-B has 2 detectors.
D_f	Detector to check the single atom loading.
τ_s	Coherence time of photon from single atom.
τ_f	Coherence time of photon from FWM.
$t_{T,A,B,L}$	Arrival time of a photon on the respective detector.
T_{AB}	Coincidence time window between detection on D_a and D_b .
T_t	Coincidence window for heralding on the trigger event.
Δt_d	delay between arrival of trigger signal and activation of AOM (variable).
Δt_p	delay between activation of AOM and pulse sent to EOM (fixed).
Δt_f	Delay through the long fiber.
Δt	Delay between the SA and FWM photon at the HOM beam-splitter.
Δt_m	Total measurement time
$R_{T,A,B,L}^{DC}$	Dark count rates of the respective detector.
R_L	Single atom loading rate
R_C	Single atom checking rate
R_t	Trigger photon rate
R_p	Single atom excitation rate (for the independent $g^{(2)}$ measurement)
δ_{AC}	AC Stark shift
δz	Zeeman shift
δ_p	Optical pump beam detuning
δ_r	repump beam detuning
Ω	Excitation rabi frequency
λ_D	Dipole trap wavelength
λ_s	photon wavelength from single atom
λ_f	photon wavelength from FWM
λ_t	Trigger photon wavelength
$\lambda_{p1}, \lambda_{p2}$	FWM pump wavelengths
δ_{p1}, δ_{p2}	FWM pump detunings
η_f	Trigger heralding efficiency of FWM photon.
η_s	Efficiency of single-atom photon.