HONG OU MANDEL BLAH TITLE BLAH

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Motivation

Some motivation text we are obviously very very motivated to do this oh yeahhhhhhh!!!!!! motivation motivation motivation motivation motivation motivation motivation

Experimental Setup

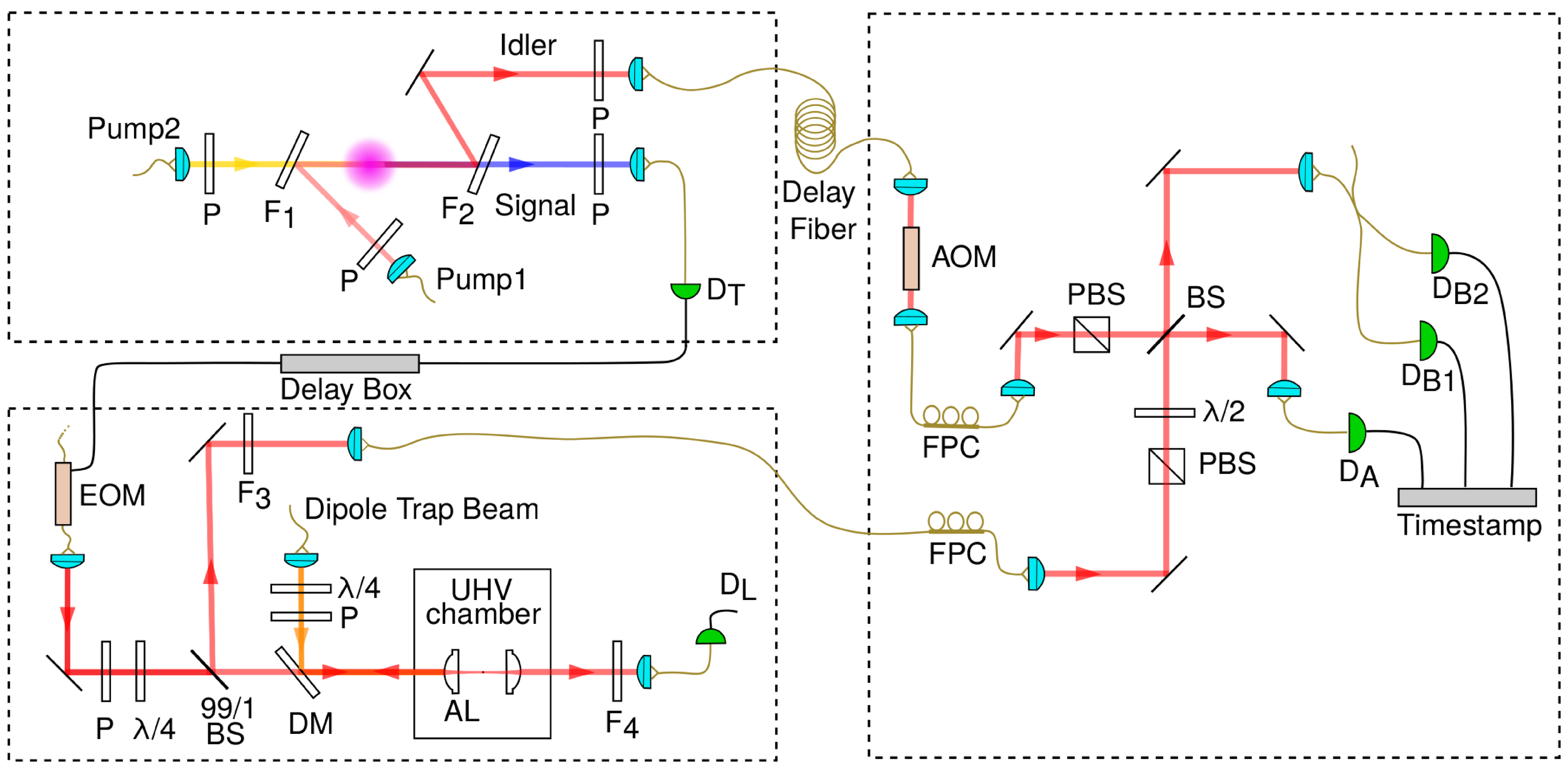

Figure 1: Joint experimental setup. Do I have to label all the P F DM etc in a poster? Should we put SA,FWM,HOM labels within the boxes? And the figure somehow doesn't look sharp??

Single Atom as a Single Photon Source

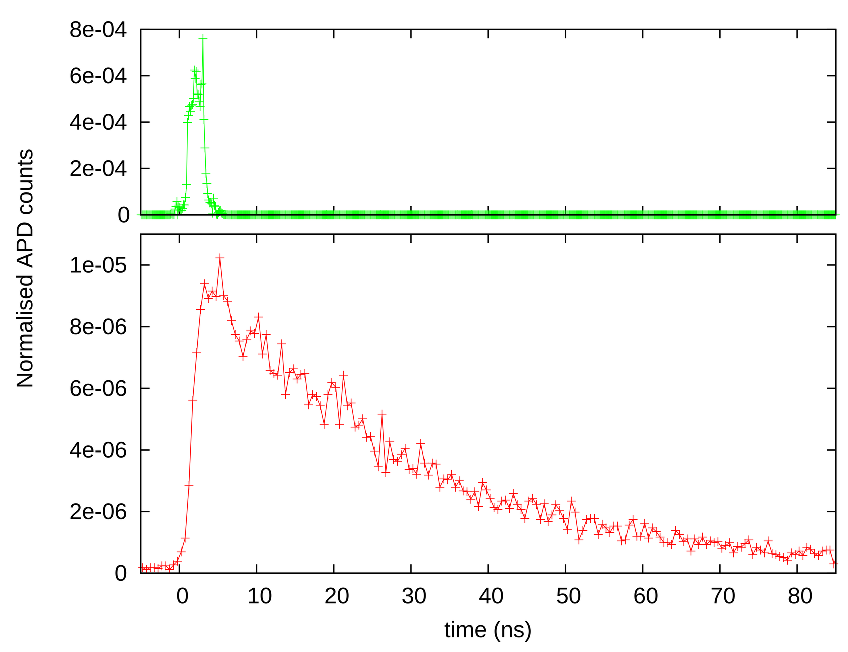

Figure 2: beautiful single atom photon

Results

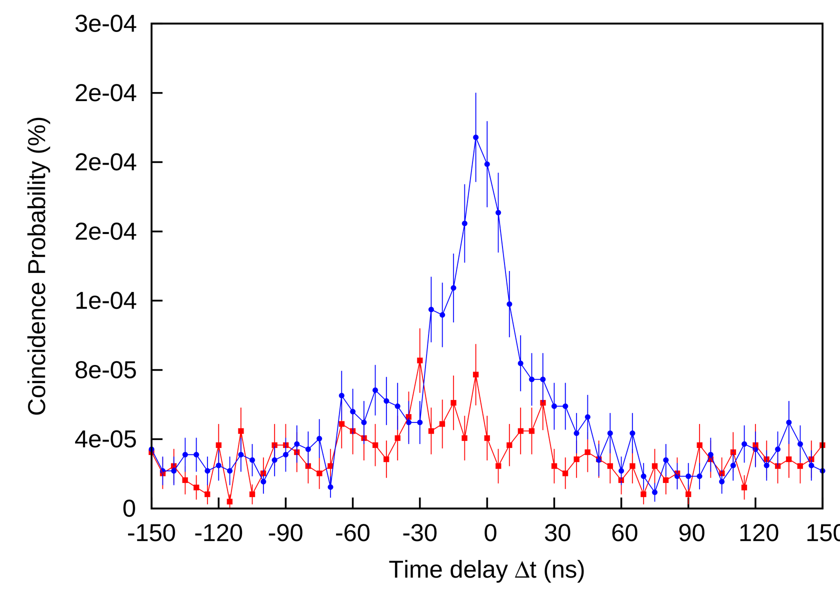

Figure 3: g2 plot. caption blah. 5ns timebins.

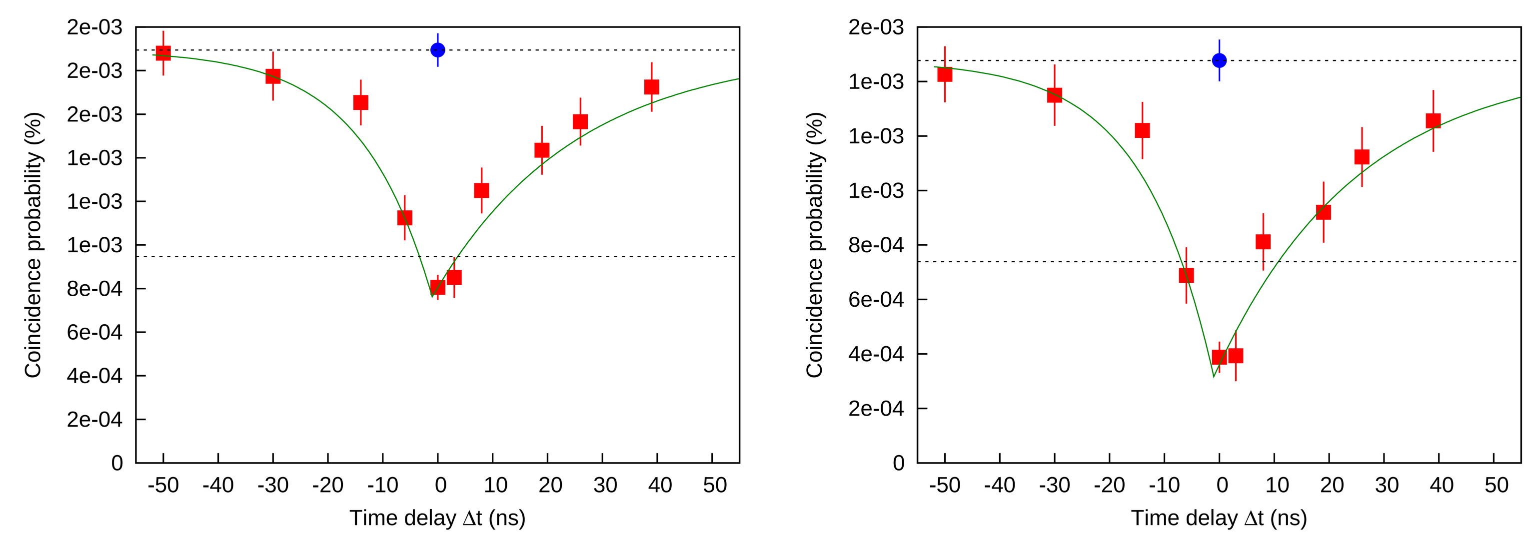

Figure 4: (Left) Probability of detecting coincident photons, , at the interferometer outputs as a function of the arrival time delay between the two photons at the HOM beamsplitter Δt, for inputs with parallel (red) and perpendicular (green) polarisations. The solid line is a theoretical fit to the data points for photons with parallel polarisations. The upper dashed line indicates the measured coincidence probability for photons that have perpendicular polarisations and thus do not interfere. Half of this value marks the quantum limit (lower dashed line); measured data points below this value indicate the quantum nature of the Hong-Ou-Mandel inteference effect, which cannot be explained with classical physics. (Right) Plot showing data corrected for accidental coincidences.

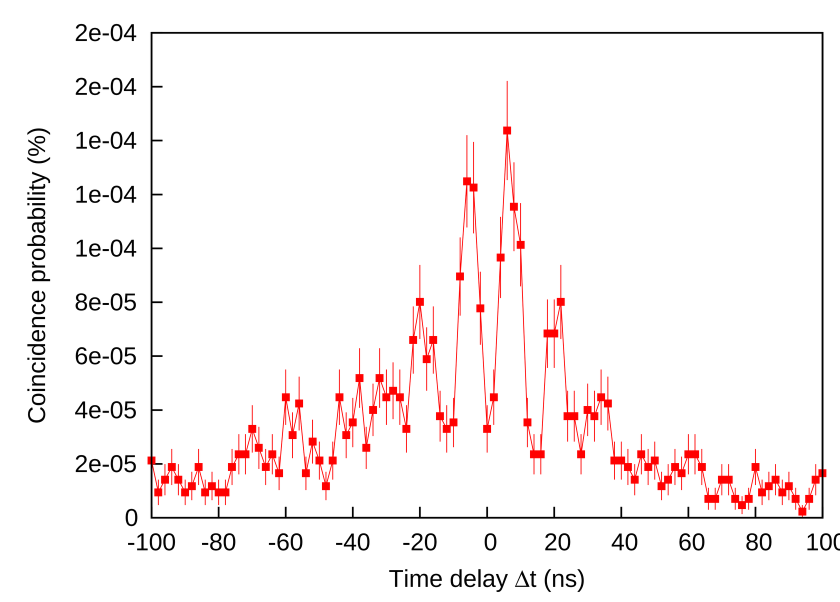

Figure 5: nice beats

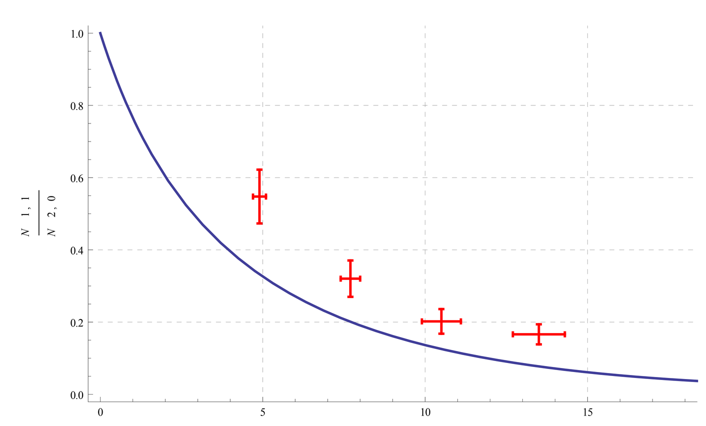

Figure 6: placeholder for decay time plot. will make a nice one if we decide to include this...