

Q&A

-How did they revise the value of $g^{(2)}(0)$?

They considered a factor called 'Detector Response Function'. It emerges because even the photon with the definite energy draws spectrum due to various reasons like Compton scattering. The Detector Response Function is various from detectors to detectors.

-The subject has deep connection with H.J. Carmichael's study. Did the writers noticed his study on antibunching?

It seems that the writers did not noticed Carmichael's work. His paper was not cited in this paper.

-What is the reason for the polarization splitting?

There could be many reasons for instance geometry of the cavity. Just like in our setup which has a mirror carved off into L shape so that H and V mode has different mode frequency.

-What kind of cavity did the writers use? How did they place quantum dot inside the cavity?

InAs/GaAs quantum dot was embedded in a p-i-n junction, separated by a 27nm thick tunnel barrier from the electron reservoir. It was embedded in the micropillar cavity with maximum Purcell factor 11.2