

A single-emitter sub-shot noise quantum light source: press a button and get one photon

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Abstract: In this talk I will discuss our recent progress towards a deterministic single-photon source. By embedding a single molecule into a metallo-dielectric antenna we obtained the most regulated stream of single photons reported to date. Such a source might have potential applications in the calibration of photodetectors and could lead to the redefinition of the candela.