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Single Molecules in Integrated Optical Cavities and Waveguides

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On-chip integration of deterministic single photon sources is of major significance in different emerging areas of quantum technologies like computing, sensing and so forth. In this talk, we are going to discuss some approaches towards integration of an organic-based single photon source, namely dibenzo-terrylene/anthracene nano-crystals to inorganic photonic structures to boost collection efficiency in addition to having multiple single photon sources on a single platform. Besides, we will present our findings regarding implementation of two photon interference experiment from two distinct single photon sources on a single chip which is of great importance for quantum computation.

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