Semiconductor-based sources of quantum light

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Abstract: Semiconductor quantum dots (QDs), or “artificial atoms”, are regarded as one of the most promising solid-state sources of single and entangled photons for applications in emerging quantum communication and photonic quantum-information-processing.

This seminar will provide an overview on the features of QDs as quantum-light emitters, on the challenges related to the solid-state-nature of these emitters, as well as on possible solutions.