

## QUANTUM DOTS FOR PHOTONIC QUANTUM TECHNOLOGIES

PETER MICHLER

Institute of Semiconductor  
Optics and  
Functional Interfaces,  
University of Stuttgart,  
Germany

Semiconductor quantum dots (QDs) have been identified as promising hardware for implementing the basic building blocks of novel quantum technologies. This is because individual charge carriers in QDs can be generated, manipulated, and coherently controlled. Moreover, integrated solutions with existing semiconductor technology are foreseeable. The topics addressed in this talk are quantum dots in photonic integrated circuits, quantum sensing with QD photons, and hybrid atom-quantum dot systems.

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