

(EQuaLS2022) Expository Quantum Lecture Series 2022

on the occasion of
The World Quantum Day 2022



ATOMIC AND SUPERCONDUCTING QUANTUM DEVICES

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ABSTRACT

Quantum technology has developed on many fronts rapidly over the last few decades. We have witnessed tremendous progress in the application of quantum technologies in quantum sensors and quantum computing. In particular for quantum computing it is not clear which physical platform will prevail. Potentially hybrid systems capturing the advantages of individual platforms could help in overcoming some of the challenges ahead. In the lecture I will describe the progress in atomic and superconducting systems and how to employ them for application in quantum computing. If time permits we will also conduct a virtual lab visit.