



ANTHONY LAING 'Quantum simulators in integrated photonics'

Light Seminar, November 28, 2019, 12:00. ICFO's Seminar Room

September 02, 2019

Recent progress in photonics has seen the integration of photon sources for on-chip generation and processing of 8 photons, more than 500 components on a silicon chip to process 8 qubits, and fully programmable circuitry to establish devices that are universal for linear optics. This all heralds a versatile class of quantum simulator and here I will discuss these results, including simulations of molecular quantum dynamics, and results toward scaling this technology to challenge conventional computers.

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Hosted by Prof. Valerio Pruneri and Prof. Antonio Acin