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The Nicholas Kurti science prize lecture

Quantum Error Correction with Bosonic Qubits

Friday 23 June, 2:00pm
Martin Wood Lecture Theatre



Dr Alexander Grimm

Researcher in the Photon Science Division, Paul Scherrer Institut
Nicholas Kurti Science Prize Winner 2022

Join us for this guest talk in which Dr Grimm will discuss the role of bosonic qubits in Quantum Error Correction (QEC), and its implications in stabilising quantum two-level systems and progressing accurate quantum information processing applications.

Since 2022, Alexander has been the group leader of the bosonic quantum information group after joining the Paul Scherrer Institut as a tenure-track scientist. He obtained his PhD at CEA Grenoble. It was his research into autonomous quantum error correction (QEC) in bosonic codes, demonstrating and operating a "Kerr-cat qubit", which earned him joint-winner of the Nicholas Kurti Science Prize in 2022, sponsored by Oxford Instruments.