

06/11/2024 - [Ben Blain](#) (TII - Abu Dhabi and Kent) - **Superconducting devices for quantum simulation and computation** - [Stacey Lecture Theatre 1 \(SLT1\)](#)

In the first half of the talk, I will give a brief introduction to qubits for quantum computation and introduce the transmon qubit — perhaps the most commonly-used superconducting qubit. In the latter half of my talk, I will focus on my two works; I will show how superconducting circuits can be a promising platform for quantum simulation and I will introduce a novel approach for suppressing chaos in arrays of superconducting qubits.

For references for my work, please see <https://doi.org/10.1103/PhysRevResearch.5.033130> and <https://arxiv.org/abs/2410.18543>