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# What a Quantum Computer does when it does nothing

*Tuesday, 27 August 2024 13:30 (40 minutes)*

I will give an overview of the key scientific discoveries leading to the current race towards building a fault-tolerant quantum computer. We will focus on the superconducting qubit platform and I will put our groups research efforts into this context. As an example, I will introduce one of our research interests: the "Lindbladian learning problem", which essentially tries to answer the question "What does a quantum computer do when it does nothing"?

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