

# Summer School on Quantum Information Processing - Gate-based and Annealing Systems

Contribution ID: 26

Type: **not specified**

## Simulating noise of quantum computers

*Wednesday, 30 August 2023 13:00 (1 hour)*

As much as we want to isolate them, we must see quantum machines as open systems. Interactions happen between the quantum machine and its environment leading to decoherence. This effectively give different types of noise at the level of the machine. What are they and how can we take them into account when doing simulation on our classical computer?

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