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Physikalisches Kolloquium

Oct. 24, 2023 at 4:15 p.m. c.t.
HS KPH

Prof. Tommaso Calarco
Forschungszentrum Juelich

Quantum Firmware: Optimal Control For Quantum Simulators

Quantum optimal control has been shown to improve the performance of quantum technology devices up to their limits in terms e.g. of system size and speed of operation. I will review our recent results with a variety of quantum technology platforms, focusing in particular on ultracold atoms, and introduce our newly developed software for automatic calibration of quantum operations - the fundamental building block of next-generation quantum firmware

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