

Physics Colloquium Mainz

October 24, 2023 at 16 c.t.

Lecture room KPH,
Johann-Joachim-Becher-Weg 45, JGU

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

Quantum Firmware: Optimal
Control For Quantum Simulators

Prof. Tommaso Calarco

Forschungszentrum Jülich

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