TheBlinQC
Theory-Blind Quantum Control
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Call 2017
SUCCESS STORY (highlights)

**CHALLENGE**
qtech applications require control
conventional: inefficient/unreliable numerical simulations

**SOLUTION**
learn how to control in the experiment

**PLANNED AND SURPRISING/UNPLANNED OUTCOMES**
control with very noisy data (Sauvage et al., PRX Quantum 1, 20322 (2020))
quantum limited cooling of nano-particle (Magini et al., Nature 595, 373 (2021))
IMPACT (RRI aspects)

**SCIENCE EDUCATION**
bridge between theory and experiment: theorists can interact with experiment

**PUBLIC ENGAGEMENT**
Hands-on Radiation pressure demonstrator -- Long night of science Vienna, Center of Science Activities in Graz
IMPACT (potential users)

INDUSTRY BRANCH
quantum devices (current NISQ)

APPLICATIONS
quantum optimization, e.g. VQE
calibration of quantum device

END USERS
user, developer and manufacturer of quantum devices
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