

WORKSHOP QUANTUM TECHNOLOGIES FOR HIGH PERFORMANCE COMPUTING

CO-LOCATED WITH THE SUMMER SCHOOL ON MANY-BODY CORRELATIONS
IN QUANTUM TECHNOLOGIES (PULA, ITALY | 28 JULY-8 AUGUST 2025)

FRIDAY AUGUST 1ST, 2025

13.00 | Light lunch

14.00 - 15.00 | Quantum AI - Solving hard problems
by real Quantum hardware
MARCO POTA (CNR-ICAR)

15.00 - 16.00 | Quantum Networking:
Basics and Routing
CLAUDIO CICCONE (CNR-IIT)

16.00 | Coffee break

16.30 - 17.30 | Distributed Quantum Computing:
Program Compilation and Execution
MICHELE AMORETTI (UNIVERSITÀ DI PARMA)

17.30 - 18.00 | Q&A - Round table with speakers

MONDAY AUGUST 4TH, 2025

13.00 | Light lunch

14.00 - 15.00 | Energetics of quantum devices
and algorithms
MARCO PEZZUTTO (CNR-INO)

15.00 - 16.00 | Quantum circuits and
variational algorithms
STEFANO MARTINA (UNIVERSITÀ DI FIRENZE)

16.00 | Coffee break

16.30 - 17.30 | Quantum annealing and optimization
LORENZO BUFFONI (UNIVERSITÀ DI FIRENZE)

17.30 - 18.00 | Q&A - Round table with speakers

CO-ORGANIZED BY STEFANO GHERARDINI (CNR-INO) AND CLAUDIO CICCONE (CNR-IIT)

