

QuantAzur Days 2025

Schedule

Nice, November 24-25 2025

Monday November 24

8h45-9h Welcome coffee

9h-10h30 Hybrid Quantum Eigensolvers,
Yvon Maday (Lab. Jacques-Louis Lyons)

10h30-10h50 Coffee break

10h50-12h20 Neutral-atom quantum computers,
David Wilkowsky (UniCA and NTU Singapore)

12h20-13h45 Lunch

13h45-14h15 QuantEdu France PhD session 1 (see next page)

14h15-15h45 Quantum information with randomized measurements,
Benoit Vermersch (University of Grenoble-Alpes, Qobly)

15h45-16h Coffee break

16h-17h30 Quantum simulation,
Etienne Granet (Quantinuum)

Tuesday November 25

8h45-9h Welcome coffee

9h-10h30 Taming errors in quantum computations,
Simon Martiel (IBM Quantum)

10h30-10h50 Coffee break

10h50-12h20 Who can compete with quantum computers? The case of computational chemistry,
Xavier Waintal (CEA Grenoble)

12h20-13h45 Lunch

13h45-14h15 QuantEdu France PhD session 2 (see next page)

14h15-15h45 Solving combinatorial optimization problems on quantum computers,
Bruno Fedrici (Consultant in Quantum, Lyon)

15h45-16h Coffee break

16h-17h30 From models of quantum computing to quantum programming languages,
Simon Perdrix (INRIA Nancy)

QuantEdu France PhD session 1 –Mon. Nov. 24–

- Quantum algorithms for vision-based robot localisation, *A. Barui*
- A variational quantum algorithm for the 2D block diagonal geminal method, *L. Jourdan*
- Quantum computing with knots, *H. Lovisi-Ennes*

QuantEdu France PhD session 2 –Tue. Nov. 25–

- A model of particles in interaction with their environment, *T. Oudeville*
- Bose-Hubbard simulator with long range hopping, *C. Morin*
- Cryptography and QKD for long term secret storage, *T. Prévost*