

Workshop schedule

■ Tutorial (90 mins)
 ■ Long talk (45 + 15 mins)
 ■ Standard talk (30 + 10 mins)
 ■ Lightning (8 + 2 mins)
 ■ Meals / breaks / free time
 ■ Other

	Monday Benchmarking	Tuesday Sensing	Wednesday Hamiltonian learning	Thursday Noise learning / Multi-copy learning	Friday Bosonic & Fermionic systems / Verification
09:00	09:00 – 11:15 Coffee / travel time Bernoulli or travel time	09:00 – 10:00 Breakfast / coffee Bernoulli	09:00 – 10:00 Breakfast / coffee Bernoulli	09:00 – 10:00 Breakfast / coffee Bernoulli	09:00 – 10:00 Breakfast / coffee Bernoulli
10:00		10:00 – 11:30 M. Perarnau-Llobet Tutorial on Quantum Sensing	10:00 – 11:30 Matthias Caro Tutorial on Hamiltonian Learning	10:00 – 10:40 Susanne Yelin Hamiltonian / Lindbladian learning	10:00 – 11:30 Antonio Mele Tutorial on Learning in Bosonic and Fermionic systems
11:00	11:15 – 12:45 R. Blume-Kohout Tutorial on Benchmarking Quantum Hardware	11:30 – 12:00 Break	11:30 – 12:00 Break	10:40 – 11:30 Christa Zoufal; Thomas Schuster; Alireza Seif; Manuel Gessner; Zhong-Xia Shang	11:30 – 11:50 Break
12:00		12:00 – 12:40 Ishaan Kannan Quantum Advantage for Sensing Properties of Classical Fields	12:00 – 12:40 Barbara Kraus Bounded-Error Quantum Simulation via Hamiltonian and Lindbladian Learning	11:30 – 12:00 Break	11:50 – 12:10 Ulysse Chabaud; sign up slots
13:00	12:45 – 14:15 Lunch	12:45 – 16:35 Lunch / free time Unconference (Benasque-style) free discussion time in the Bernoulli centre	12:45 – 16:30 Lunch / free time Unconference (Benasque-style) free discussion time in the Bernoulli centre	12:00 – 12:40 Laurin Fischer; Felix Binder; Shao Hen; Jessica Bavaresco	12:10 – 12:45 Omar Fawzi Quantum learning theory with fault-tolerant components
14:00				12:45 – 14:15 Lunch	12:45 – 14:15 Lunch
15:00	14:15 – 14:25 Helen Propson			14:15 – 14:55 Richard Kueng An infinite hierarchy of multi-copy quantum learning tasks	14:15 – 14:55 Elham Kashefi Quantum verification in practical settings
	14:25 – 15:05 Dominik Hangleiter In-situ benchmarking of fault-tolerant quantum circuits			14:55 – 15:35 Sisi Zhou Instance-optimal high-precision shadow tomography with few-copy measurements (virtual)	
	15:05 – 15:15 Cristina Cirstoiu			15:35 – 16:15 Alex Grilo Verification of noisy quantum computation with entangled servers	
16:00	15:25 – 15:55 Unconference topic proposal discussion			16:15 – 20:00 Free time (Maybe head to the lake for discussions / swimming / an impromptu BBQ if the weather is nice?)	
17:00	16:15 – 17:15 Aram Harrow Colloquium @ CE 1 3 (10 min walk from Bernoulli)	16:30 – 17:30 Richard Allen Quantum Computing Enhanced Sensing	16:30 – 17:30 Quynh Nguyen Learning quantum Gibbs states locally and efficiently		
18:00		17:30 – 18:00 Sridhar Prabhu, Wenchao Xu, Andrew Sornborger	17:40 – 18:20 Daniel Stilck França Adversarially robust Hamiltonian learning		
		18:00 – 19:00 Poster Session	18:20 – 19:00 Alexey Gorshkov Quantum sensor networks		
19:00					
20:00			19:30 – 20:00 Conference dinner Brasserie de Montbenon		