

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