7th Basque Quantum Science and Technology Workshop Oct 4, 2024

09:20		Welcome	
09:30	I1	Mark	Erbium atoms in tweezer arrays: A new platform for Quantum Simulation
10:00	C1	Gonzalez-Raya	Modelling Frequency Conversion of Quantum Light via Molecular Modulation in Hollow-Core Fibres
10:20	I2	Huang	In-situ subwavelength quantum gas microscopy: control and measurement of dense ensemble
10:50		Coffee break and Posters	
11:20	I3	Toth	Number-phase uncertainty relations and bipartite entanglement detection in spin ensembles
11:50	C2	Bercioux	Spectral Properties of Non-Hermitian Systems Featuring Impurities and Flat Bands
12:10	C3	Barnett	Non-Hermitian Quantum Many-Body Physics
12:30	C4	Patra	Projected Entangled Pair States with flexible geometry
12:50		Lunch and Posters	
15:20	I5	Pistolesi	A nanomechanical Qubit for sensing and computing
15:50	C8	Ortuzar	A tunable Cooper pair diode
16:10	I6	Frederiksen	Electron quantum optics with graphene nanoribbons
16:40		Coffee break and Posters	
17:10	I4	Crespo	Insights in Quantum Information Theory
17:40	C5	Aizpurua	Hacking Cryptographic Protocols with Advanced Variational Quantum Attacks
18:00	C6	Andrade	Real-time evolution of the Schwinger model on IBMQ devices: Gauge invariance as an error-correction tool
18:20	C7	Carreras	Towards Running Quantum Chemistry in Quantum Hardware
18:40		Conclusion & End of Workshop	