



# ICE-10: Quantum Information in Spain

## Thursday 23 October 2025

### **Fourth Day: Invited talk - Auditorio Joan Plaça (9:30-10:00)**

time	[id] title	presenter
9:30	[322] Invited talk	ZEIHER, Johannes

### **Fourth Day: Contributed talks - Auditorio Joan Plaça (10:00-11:00)**

time	[id] title	presenter
10:00	[323] Perovskites Nanocrystals and QED approaches for single photon emitters	MUÑOZ MATUTANO, Guillermo
10:20	[324] Ultrafast exciton fluid flow in an atomically thin MoS2 semiconductor	GRANADOS DEL AGUILA, Andres
10:40	[325] Benchmarking Quantum Simulators for Shor's Algorithm in SCAYLE: A Comparative Study with Classical Systems	MERINO BAJO, Santiago

### **Fourth Day: Contributed talks - Auditorio Joan Plaça (11:30-12:50)**

time	[id] title	presenter
11:30	[326] Potential renormalisation, Lamb shift and mean-force Gibbs state—to shift or not to shift?	CORREA MARICHAL, Luis Alberto
11:50	[327] Towards a Fundamental Finite-Time Correction of Landauer's Principle	ROLANDI, Alberto
12:10	[328] Measuring temporal entropies in experiments	BOU COMAS, Aleix
12:30	[329] Extended local ergotropies	FARINA, Donato

### **Fourth Day: Invited talk - Auditorio Joan Plaça (15:00-15:30)**

time	[id] title	presenter
15:00	[330] Invited talk: Playing with solitons: HEP-inspired quantum simulators	Dr. BERMUDEZ, Alejandro

### **Fourth Day: Contributed talk - Auditorio Joan Plaça (15:30-16:50)**

time	[id] title	presenter
15:30	[331] Progress towards scalable quantum computing algorithms for HEP	LUCIO MARTINEZ, Miriam
15:50	[332] Quantum Machine Learning model based on qudits for anomaly detection in high-energy physics data	CAROU LAIÑO, Miranda
16:10	[333] Quantum Advantage Today via Iterative Learning and Composition of Hardwares	V. ROMERO, Sebastián

16:30	[334] Quantum Optimization of Titanium Plate Cutting Using QUBO Formulations: A Practical Approach	FRANCO GONZALEZ, Cristian
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