



# Quantum Information in Spain ICE-8

## Monday 29 May 2023

### Session 4.2 - Aula Magna (11:20 - 13:00)

-Conveners: Chair: Marcos Curty

time	[id] title	presenter
11:20	[120] KeySight	GARCÍA, Benjamín FERNÁNDEZ, Miguel Ángel
11:40	[61] Fast single-photon detectors and real-time key distillation enable high secret-key-rate quantum key distribution systems	Dr GRUENENFELDER, Fadri
12:00	[58] Distributing circuits over heterogeneous, modular quantum computing network architectures	ANDRES-MARTINEZ, Pablo
12:20	[54] Topologically robust network nonlocality	KRIVÁCHY, Tamás
12:40	[41] Guaranteeing non-classicality in experimental quantum networks without assuming quantum mechanics	POZAS-KERSTJENS, Alejandro

# Tuesday 30 May 2023

## Session 4.2 - Aula Magna (11:20 - 13:00)

-Conveners: Chair: David Zueco

time	[id] title	presenter
11:20	[122] Quantum Computing at FUJITSU	GARCÍA CARRASCO, Juan Antonio
11:40	[27] Using high-dimensional entanglement for closing the detection loophole in Bell experiments	CABELLO, Adán
12:00	[80] Number-phase uncertainty relations and bipartite entanglement detection in spin ensembles	TOTH, Geza
12:20	[67] Quantum supremacy in mechanical tasks: projectiles, rockets and quantum backflow	Mr TRILLO, David
12:40	[19] Optimal control of dissipation and work fluctuations for rapidly driven systems	ROLANDI, Alberto

# Wednesday 31 May 2023

## Session 4.2 - Aula Magna (11:20 - 12:00)

-Conveners: Chair: Andres Gomez Tato

time	[id] title	presenter
11:20	[127] EVIDEN-ATOS	CAMACHO, José
11:40	[89] Variational Waveguide-QED Simulators	TABARES LÓPEZ, Cristian

# Thursday 1 June 2023

## Session 4.2 - Aula Magna (11:20 - 13:00)

-Conveners: Chair: Alba Cervera Lierta

time	[id] title	presenter
11:20	[4] Tackling thermalization dynamics through decoherent tensor networks	RAMOS MARIMÓN, Carlos
11:40	[40] Exact solution for quantum strong long-range models using a generalized Hubbard–Stratonovich transformation from cavity QED	ROMÁN-ROCHE, Juan
12:00	[39] Encodings of binary variables for efficient use in a quantum computer	TADDEI, Márcio
12:20	[35] Quantum circuits for quantum walks with position-dependent coin operator	PEREZ, Armando
12:40	[69] Parallelizing quantum algorithms with classical communication.	RODRIGUEZ RAMOS, Constantino