

Quantum Day @ BSC

The event is co-organized by BSC-UB and the Instituto de Física Fundamental (IFF-CSIC, Madrid), and has the support of [RICE](#). Therefore, a reasonable amount of travel support will be possible for those coming further away from Barcelona.

If you are interested, you can email [Pol Forn](#) with your information and possible contribution, as well as an estimate of your travel costs, in case you request funding from the network. For more information, consult [the official site](#) of the event. If you are interested in attending, please **confirm your assistance**.

Programme

9:00h

Introduction to Quantum Computation

José Ignacio Latorre (UB)

9:30h

A Barcelona Quantum Processor

Pol Forn-Díaz (BSC)

10:00h

Coffee

10:30h

Review of applied quantum algorithms

Artur García-Sáez (BSC)

11:00h

Photon-mediated Ising models in superconducting circuits

Juanjo García-Ripoll, Manuel Pino (IFF-CSIC)

11:40h

Topology and many-body phases in synthetic lattices

Alessio Celi (ICFO)

12:10h

Visit *MareNostrum*

13:00h

Lunch

15:00h

Running quantum algorithms on the IBM Quantum Experience

Daniel Alsina (UB)

15:30h

Doing Number Theory with a Quantum Computer

Germán Sierra (IFT-CSIC)

16:00h

Coffee

16:15h

Quantum annealing for the number-partitioning problem with trapped ions

Bruno Juliá (UB)

16:45h

Enrique Rico (UPV)

17:15h

Trustworthy quantum simulators showing a quantum speed-up

Juan Bermejo-Vega (Freie U. Berlin)

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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