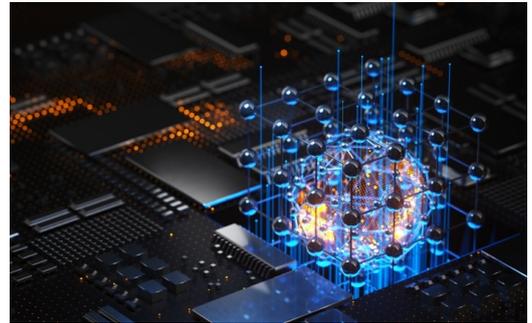




Quantum Computing, Complexity and Control (QCCC2026)



18.Mayo - 22.Mayo 2026

Cód. Z70-26

Mod.:

Presencial

Edición

2026

Tipo de actividad

Workshop

Fecha

18.Mayo - 22.Mayo 2026

Ubicación

Donostia International Physics Center

Idiomas

Inglés

Validez académica

50 horas

Web

<https://qccc26.github.io/index.html>

DIRECCIÓN

Adolfo del Campo, University of Luxembourg

Comité Organizador



Fundación
BBVA



Descripción

This workshop brings together researchers from industry and academia to explore the frontiers of quantum computing, with a focus on recent advances in quantum control and the complexity of quantum dynamics in physical systems. The event aims to foster cross-disciplinary dialogue and collaboration among experts working on Krylov subspace methods in quantum dynamics—including operator growth and Krylov complexity—as well as quantum control strategies based on shortcuts to adiabaticity, such as counter-diabatic driving and adiabatic gauge potentials. In addition, the workshop will highlight the development of quantum algorithms for quantum computing assisted by counter-diabatic driving.

Topics include:

- Quantum complexity
- Krylov subspace methods
- Quantum dynamics and chaos
- Quantum Computing algorithms
- Quantum control shortcuts to Adiabaticity
- Counter-diabatic driving
- Adiabatic Gauge Potential

Organizing Committee:

Budhadyta Bhattacharjee (University of Luxembourg)

Adolfo del Campo (University of Luxembourg & DIPC)

Xi Chen (ICMM-CSIC)

Geza Giedke (DIPC)

Objetivos

This workshop is planned to provide a stimulating platform for the exchange of ideas, building connections and forming collaborations among researchers in academia and industry working at the intersection of quantum dynamics, quantum control, quantum computing and quantum algorithms

By bringing together leading experts on Krylov subspace methods and operator complexity, shortcuts to adiabaticity and counter-diabatic driving, and algorithmic applications of these techniques in quantum computing, this event aims to foster engaging discussions and spark fruitful collaborations.

The goal of this workshop is to generate new synergies that potentially lead to new and significant advances in the the control and computational power of near-term and future quantum technologies.

Colaboradores específicos del curso



ZIENTZIA, UNIBERTSITATE ETA
BERRIKUNTZA SAILA
DEPARTAMENTO DE CIENCIA,
UNIVERSIDADES E INNOVACIÓN

Dirigido por:



Adolfo del Campo

University of Luxembourg

Precios matrícula

REGISTRATION

HASTA 10-05-2026

Fee Waiver

0 EUR

Regular Attendant

275,00 EUR

Lugar

Donostia International Physics Center

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Gipuzkoa