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QMIO Quantum Computer @ CESGA: System Overview and Hands-On Tutorial

Tuesday, 29 October 2024 12:00 (1 hour)

In this tutorial, attendees will have the opportunity to learn how to use a real quantum computer—the 32-qubit superconducting quantum computer deployed at CESGA.

Integrating classical and quantum computers is a significant challenge. We will show how we have achieved this integration, enabling seamless hybrid computing. Participants will discover how to easily submit quantum circuits using Python, facilitating efficient interaction between high-performance computing (HPC) and the quantum processing unit (QPU). This tutorial starts with a presentation of the QMIO Quantum Computer

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Session Classification: Tutorials and demonstrations

Track Classification: Development of innovative software and services