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## **Design of quantum-HPC hybrid platforms leveraging supercomputers**

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### **Abstract**

We started developing a quantum-HPC hybrid platform last year. In this talk, we present several prototype implementations and the preliminary results of our experiments. Additionally, we outline the design of the quantum-HPC hybrid platform, which was refined through these experiments.

Our design maximizes supercomputers' performance efficiency and provides flexible solutions tailored to support a wide range of quantum-HPC hybrid applications. By leveraging supercomputers' capabilities, we aim to create a platform that seamlessly integrates quantum and HPC computing for various computational tasks.