PASQAL Announces Quantum Computing Collaboration with NVIDIA

Paris, December 9th, 2021 - PASQAL today announced a collaboration with NVIDIA to build a Quantum Computing Center of Excellence, featuring a cluster of 10 NVIDIA DGX A100 systems with NVIDIA InfiniBand networking to enhance its portfolio of solutions.

PASQAL, a member of the NVIDIA Inception program which nurtures cutting-edge startups, will offer powerful quantum computing tools, supercharged by NVIDIA accelerated computing, to its customers across the entire value chain. In addition to broadening the spectrum of applications available, this cluster provides added technical capabilities for PASQAL's emulation system, which is based on its open-source library, Pulser. Pulser will be available via the cloud in early 2022.

Additionally, PASQAL will use the NVIDIA cuQuantum software development kit to further optimize the company's development operations. NVIDIA cuQuantum consists of libraries and tools designed to accelerate quantum computing workflows. PASQAL's developers will use cuQuantum to accelerate quantum circuit simulations based on state vector and tensor network methods by orders of magnitude.

"We are truly excited about this collaboration with NVIDIA. Our Quantum Computing Center of Excellence will enrich our emulation capabilities and is also part of our commitment to offer end users the best possible tools across the entire value chain," said **Loïc Henriet, CTO of Pasqal**.

"Quantum computing is helping researchers simulate complex phenomena for scientific discovery and address problems including optimization, drug discovery and machine learning.", said **Christophe Legrand, head of France Enterprise Computing at NVIDIA.** "PASQAL's Quantum Computing Center of Excellence, featuring NVIDIA DGX systems, will enable the simulation of tens of atomic qubits in 2D and 3D arrays to develop tools that will foster the development of industrial applications and can help advance scientific discovery."

About PASQAL

PASQAL builds quantum computers from ordered neutral atoms in 2D and 3D arrays with the aim of bringing a practical quantum advantage to its customers on real-world problems, especially in quantum simulation and optimization. PASQAL was founded in 2019 by Georges-Olivier Reymond, Christophe Jurczak, Professor Dr. Alain Aspect, Dr. Antoine Browaeys and Dr. Thierry Lahaye. PASQAL is based in Palaiseau and Massy, on the Plateau de Saclay, south of Paris, France. PASQAL completed a Series A financing round in April 2021 (€25 million), co-led by Quantonation and the Defense Innovation Fund managed by Bpifrance on behalf of the Defense Innovation Agency (AID).

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