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Title: Shaping the quantum future from Europe

Abstract:

Quantum Computing offers revolutionary possibilities for future technologies. Quantum applications include examples such as drug discovery, aircraft optimization, and portfolio management in finance. To use quantum computers in the related industries, the size of quantum processors has to increase by orders of magnitude compared to the current state-of-the-art. Large efforts in this direction are driven by the US and Asian countries. To create a shortcut to quantum advantage with more efficient hardware resources, IQM is developing novel Co-Design Quantum Computers to reach commercial quantum advantage faster. Together with partners from research and industry, IQM is building a strong ecosystem for commercially viable quantum technologies.