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Diamond Quibits for Everyone: NV-Center Quantum Computing (XeeDQ)

Monday 24 March 2025 15:20 (20 minutes)

In this presentation, I will introduce quantum computing with diamond-based qubits, focusing on nitrogen-vacancy (NV) centers. NV-based quantum computers operate at room temperature and ambient pressure in compact, mobile devices, making them a cost-effective and accessible alternative to other platforms. I will discuss how our work at XeedQ aims to democratize quantum computing by making these systems available for research, education, and practical applications. Additionally, I will compare NV-based quantum computing with other state-of-the-art quantum computers and share our approach to scaling NV systems to larger qubit numbers.

Presenter: RICKERT, Julian (XeeDQ)