



## WEBINARS

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# Expanding Quantum Frontiers with Superconducting Single-Photon Detectors

**Tuesday, October 19, 2021 10:00 AM - 11:00 AM EDT**

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Presented by



## .: About This Webinar

Quantum science is measuring ever-smaller gaps in time, energy, and space, bringing us closer to the fabric of reality itself. In this webinar, Félix Bussi eres, Ph.D., of ID Quantique explores the technology of superconducting nanowire single-photon detectors — optical detectors with incredible efficiency and speed across the visible, IR, and fiber-telecom wavelengths — as well as the key scientific applications and emerging technologies they enable, and the benefits therein.

He also discusses the outlook for the quantum technology field: using ultraprecise and sensitive single-photon-counting solutions to enable the expanding horizon of scientific discovery, driving the next generation of high-tech innovation in the process. Join us as we move a step closer to scalable quantum computing and simulation and a realizable quantum internet.

### Who should attend:

This webinar is for anyone with an interest in quantum optics or quantum information theory, as well as research scientists and engineers engaged in high-sensitivity photonic technologies, both in industry and academia.

### About the presenter:

F elix Bussi eres, Ph.D. is vice president of research and technology at ID Quantique. He and his team are responsible for the development of IDQ's core technologies and for key innovative projects. Bussi eres obtained his Ph.D. in physics from the Universit e de Montr eal. He then worked as a senior researcher at the University of Geneva, where he conducted research in quantum technologies. In particular, he played a key role in developing high-performance superconducting detectors. After joining IDQ in 2016, he took the superconducting detector technology from a prototype to a successful product line for research laboratories, as well as a partnership with ArianeGroup to develop cutting-edge equipment dedicated to the upcoming Ariane 6 commercial space launcher. He now leads several innovation activities related to the development of single-photon detectors, quantum random number generators, and quantum key distribution.

### About ID Quantique:

ID Quantique provides photon-counting solutions for visible and near-infrared wavelengths, pulsed laser sources, counting and timing electronics, and photonic sensing solutions for both industrial and research applications in various domains such as quantum physics, communications, bio- and material sciences, defense and security, and oil and gas. IDQ's products help customers solve complex scientific and industrial problems with state-of-the-art tools and instrumentation combined with real-world experience.



## .: Mark Your Calendar

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