

# Advancing Quantum Sensing through the Development of an Integrated Stack Utilizing Superconducting Devices

*Tuesday, 16 January 2024 16:30 (15 minutes)*

To advance quantum sensing we develop an integrated stack for microwave single-photon detection. Utilizing superconducting qubits, parametric amplifiers, and RFSOC-based quantum electronics, we aim to exceed current standards. Preliminary results and ongoing developments are presented.

[https://drive.google.com/open?id=1WWIHv8Q-7nFhLZrkQK-40N2pchP\\_GSuP](https://drive.google.com/open?id=1WWIHv8Q-7nFhLZrkQK-40N2pchP_GSuP)

**Presenter:** NUCCIOTTI, Angelo (Universita' di Milano-Bicocca)

**Session Classification:** Miniworkshop tematici