

# Cryogenic Low Noise Amplifiers for Quantum Technologies

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Circuit QED based on superconducting qubits is currently one of the most actively researched platforms for quantum computing. The flexibility offered by a wide variety of qubit types, architectures and readout has fueled a growing ecosystem of companies and business models all over the world. Low Noise Factory (LNF) offers ultrasensitive low noise amplifiers (LNAs) and microwave circulators and isolators which have become the backbone of amplitude/phase readout for quantum computing and radioastronomy.

In this talk we explore the basics of LNAs, their measurements, good usage practices, failure modes and troubleshooting tips which will allow you to get the most out of these expensive microwave components. We also discuss the role of the company, its history, business, and research projects for the future.