Quantum Communication PLC Spectrometer Resistant to Low Temperatures

Oxford Instruments offer a wide range of low-temperature measurement solutions to enable these complex measurements.

In the low power regime, the measurement is fully calibration-free. Our technique offers an alternative spectrometer for quantum circuits.

We report on the development of a current amplifier for measuring small currents from mesoscopic electronic devices at low temperatures down to the milli-Kelvin range.

The objective of this Perspective is to review the recent advances made towards developing integrated quantum photonic technologies, as well as the current challenges and future ...

Abstract: We have assessed the use of commercial silicon-on-sapphire CMOS electronics in control circuits, which could be used to interface with quantum bits at low temperatures.

Quantaurus-QY® includes an excitation light source consisting of a xenon lamp and a monochromator, an integration sphere with optional nitrogen gas flow, and a multichannel detector capable of ...

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Moreover, the thermal measurement yields a highly frequency independent reference level of the Lorentzian absorption signal. In the low power regime, the measurement is fully ...

We propose a scheme to enhance the range and precision of ultra-low temperature measurements by employing a probe qubit coupled to a chain of ancilla qubits. Specifically, we ...

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