Nanowire Kinetic Inductance Detector Array

- Combining high timing resolution of SNSPDs with the multiplexing capability of KIDs.
- NbN nanowire meander utilized as part of the inductive element of a resonator.
- Each resonant frequency is read out on a single line.
- Operates in KID mode or SPD mode.

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KID Mode

- Operating with DC bias, two pulses from separate nanowires.

DC biased SPD Mode

- FFT of pulses show which detectors were struck.

- Single resonator frequency shift at various LED bias currents.

- VNA sweep of the full array.

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