

Kinetic Inductance Parametric Up-converter (KPUP)

- Current dependent (kinetic) inductance of NbTiN wire
- Low frequency current signal modulates GHz carrier
- $\sim 3 \text{ pA} / \text{Hz}^{1/2}$ with $P_{\text{carrier}} = 1 \text{ uW}$
- Nondissipative

