Terra Hertz imaging using superconducting kinetec inductance detectors:

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Superconducting Kinetec Inductance Detectors (KIDs) have significant advantages for building very large arrays of pixels (>1000), and have previously been proposed and prototyped for millimeter and x-ray detectors. Here we propose and discuss a simple detector scheme for (~2) THz imaging spectroscopy, suitable for a future mission like SPICA, so helping to take KID research from simple (KID) resonator characterization to full radiation detectors.