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Development of a 350-GHz Dual-Polarization On-Chip Spectrometer

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Broadband imaging spectrometers are playing an increasingly important role in terahertz astronomy. As is well known, microwave kinetic inductance detectors (MKIDs) use frequency-domain multiplexing (FDM) that allows thousands of pixels to be read out through a single coaxial transmission line. Based on Al MKIDs incorporating a Nb/SiO₂/Nb thin-film microstrip-line filter bank, we are developing a 350-GHz dual-polarization on-chip spectrometer with a frequency resolution of about 100. Detailed simulation and measurement results will be presented.

Less than 5 years of experience since completion of Ph.D

N

Student (Ph.D., M.Sc. or B.Sc.)

N

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