

Picosecond Dual-Source Interferometer Extending Fourier-Transform Spectrometer to Microwave Regime

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We report a dual-source interferometer based on nonlinear transmission lines and integrated antennas which interfaces directly with a Fourier-transform infrared (FTIR) spectrometer to enable longer-wavelength measurements than normally possible with a black-body source. As a demonstration, we show preliminary transmission measurements through a plate of high-resistivity silicon.

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