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Title:Terahertz Imaging With Quantum-Well Photodetectors

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Abstract:We present an imaging system based on a terahertz (THz) quantum-well photodetector (QWP). The THz QWP possessing high sensitivity at THz frequency band (0.3-10 THz) is utilized as a detector for imaging. We obtained images of a concealed sample in envelope by detecting the transmitted THz radiation from a black-body source as background radiation. This letter shows the potential of THz QWPs for imaging.

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