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Title:Single Sampling Point Detection of Frequency Modulated Terahertz Waves

Authors:Scheller, M. (1); Kinder, T. (2); Peters, O. (1); Mu¨ ller-Wirts, T. (2); Koch, M. (1)

Author affiliation:(1) Fachbereich Phys., Philipps Univ. Marburg, Marburg, Germany; (2) TEM

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Abstract:We present single sampling point detection of the amplitude and phase of frequency modulated continuous wave terahertz radiation. Employing a conventional photomixing setup with a precise wavelength control allows for rapid scan rates in the kHz regime. Two application examples demonstrate the potential of this approach for real time monitoring of samples' thicknesses and transmittances.

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