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Title:Improved measurement of polarization state in terahertz polarization spectroscopy

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Abstract:A calibration scheme is presented for improved polarization state measurement of terahertz pulses. In this scheme the polarization response of a two-contact terahertz photoconductive detector is accurately measured, and is used to correct for the impact of the nonidealities of the detector. Experimental results show excellent subdegree angular accuracy and at least 60% error reduction with this scheme. © 2012 Optical Society of America.

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Main heading:Polarization

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