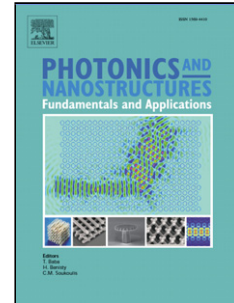


## Accepted Manuscript

Title: Experimental Gouy phase shift compensation in Terahertz time-domain spectroscopy

Authors: Pierre Kolejak Kamil Postava Martin Micica Petr Kuzel, Filip Kadlec Jaromır Pištora



PII: S1569-4410(17)30304-8  
DOI: <https://doi.org/doi:10.1016/j.photonics.2018.06.011>  
Reference: PNFA 670

To appear in: *Photonics and Nanostructures – Fundamentals and Applications*

Received date: 10-10-2017  
Revised date: 25-6-2018  
Accepted date: 26-6-2018

Please cite this article as: Pierre Kolejak, Kamil Postava, Martin Micica, Petr Kužel, Filip Kadlec, Jaromır Pištora, Experimental Gouy phase shift compensation in Terahertz time-domain spectroscopy, <![CDATA[*Photonics and Nanostructures - Fundamentals and Applications*]]> (2018), <https://doi.org/10.1016/j.photonics.2018.06.011>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

- A method of experimental compensation of the Gouy phase shift is proposed.
- The method corrects the transmission amplitude and phase in THz spectroscopy.
- The compensation of the Gouy phase is applicable for slightly misaligned system.
- The method is applied to determine the precise complex refractive index spectra.

Accepted Manuscript

Download English Version:

<https://daneshyari.com/en/article/7932742>

Download Persian Version:

<https://daneshyari.com/article/7932742>

[Daneshyari.com](https://daneshyari.com)