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Accession number:20113214224386 Title:Terahertz TDS signal de-noising using wavelet shrinkage Authors:Liang, Yuqing (1); Fan, Wenhui (1); Xue, Bing (1) Author affiliation:(1) State Key Laboratory of Transient Optics and Photonics, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, Xi'an 710119, China Corresponding author:Fan, W.(fanwh@opt.ac.cn) Source title: Chinese Optics Letters Abbreviated source title: Chin. Opt. Lett. Volume:9 Issue:SUPPL. 1 Issue date:June 2011 Publication year:2011 Pages:S10504 Language:English ISSN:16717694 Document type: Journal article (JA) Publisher: Science Press, 18, Shuangqing Street, Haidian, Beijing, 100085, China Abstract: The field of terahertz (THz) science and technology has achieved significant progress over the last decades. Research interest focuses on THz spectroscopy and imaging. The signal-to-noise ratio (SNR) of the THz system is of great importance in the application of THz spectroscopy and imaging. In this letter, the wavelet de-noising technology is used to improve SNR and increase the speed of the THz time-domain spectroscopy system by reducing the

repeating times.

Number of references:7