Thursday, October 8, 2020

PHOTONICS spectra

WEBINARS

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Focus on Recovering Signals in Optical Experiments

Thursday, October 22, 2020 11:00 AM - 12:00 PM EDT

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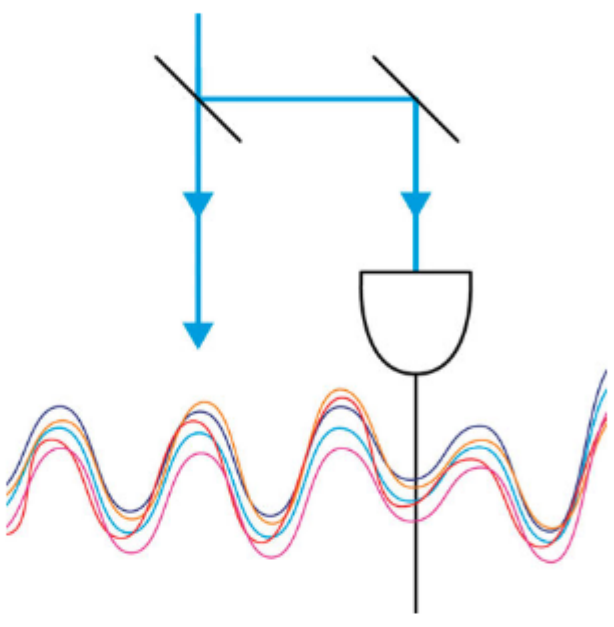
Presented by

Zurich Instruments

.: About This Webinar

Capturing meaningful information while avoiding sizable overheads is crucial for all experiments in optics. It is what makes the difference between data that can be analyzed straightaway and a vast amount of data requiring substantial post-processing. Lock-in amplifiers and boxcar averagers help maximize the information content of results acquired in spectroscopy experiments, in studies of ultrafast phenomena, and in feedback experiments such as laser stabilization.



In this webinar, Claudius Riek, Ph.D., of Zurich Instruments will look into the effect that specific settings for these instruments have on the measurement results, focusing on filter function, filter order, and time constant. He will then explore the relevance of typical properties of electronic measurement devices for optical experiments such as dynamic range, measurement bandwidth, and signal input noise.

The feedback from Zurich Instruments' recent Photonics.com webinar, "Optimize the Signal Acquisition for Optics and Photonics Measurements," inspired this deeper dive into the topic of recovering signals in optical experiments.

Who should attend:

Whether you are a researcher, an engineer, or a student who is planning or upgrading an experiment, you will learn which specifications are relevant for measurement instruments and which settings will allow you to maximize the information content of your recorded data.

About the presenter:

Claudius Riek, Ph.D., is an application scientist responsible for all photonics applications at Zurich Instruments, with seven years of experience in ultrafast photonics, in particular THz time-domain spectroscopy, laser scanning microscopy, and frequency combs. Claudius is curious to look into new applications way beyond optics and photonics.

About Zurich Instruments:

Zurich Instruments makes lock-in amplifiers, arbitrary waveform generators, impedance analyzers, quantum computing control systems, phase-locked loops, and boxcar averagers. In combination with LabOne, the Zurich Instruments control software, a new benchmark is set for instrumentation in the DC to GHz range. This unique approach reduces the complexity of laboratory setups, removes sources of problems, and supports new measurement strategies that enable the progress of research.

.: Mark Your Calendar

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Space is limited. Reserve your Webinar seat now at: https://attendee.gotowebinar.com/register/1657187633747036172

After registering you will receive a confirmation email containing information about joining the Webinar.

SYSTEM REQUIREMENTS

Operating System

Windows® 7 or later, Mac OS® X 10.9 or later, Linux®, Google Chrome™ OS
Android™ OS 5 or later, iOS® 10 or later

Web Browser

Google Chrome™ (most recent 2 versions)
Mozilla Firefox® (most recent 2 versions)

Mobile Devices

Android™ 5 or later
iPhone® 4S or later
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Windows Phone® 8+, Windows® 8RT+

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- Avalanche Photodiodes – Design and Applications
- Digital Holographic Microscopy for Cytometry and Histology

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