Friday, September 21, 2018

WEBINARS

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Imaging Applications in Quantum Research

Wednesday, September 26, 2018 1:00 PM - 2:00 PM EDT

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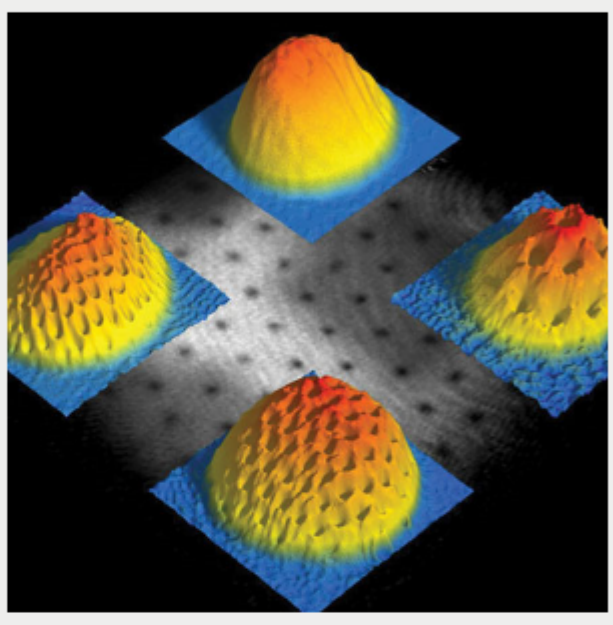
Presented by

Princeton Instruments

About This Webinar



Quantum technology, an exciting and evolving field combining physics and engineering, applies the properties of quantum mechanics to next-generation computing applications. It has the potential to fundamentally change the limits of classical computers as we know today.

This webinar will begin with an overview of quantum technology, including a brief history of its origin and development. The discussion will also include emerging practical applications for quantum technology. The webinar's main focus will be on quantum applications that incorporate imaging detectors such as single photon source development, trapped ion imaging, and control of qubits. The webinar will also cover the following topics:

- Unique detector requirements for quantum research.
- Latest developments in photonic detectors including silicon-based CCD, scientific CMOS, intensified CCDs (ICCDs), and the new generation of InGaAs detectors for shortwave infrared (SWIR, 900-1700nm) range.
- Basic concepts of single photon detection, quantum efficiency, and detector noise.

About the presenter:
Michael Melle is product manager for imaging at Princeton Instruments. In this role he manages the optical product business segment, which consists of state-of-the-art cameras for the scientific research, industrial imaging, and OEM communities. Before joining Princeton Instruments, Melle worked at Allied Vision as sales development manager for the Americas. He has also held top management positions at SRI International and Basler Inc. His work in business and product development spans diverse markets including aerospace, industrial automation, embedded systems, and machine vision/image processing, and emerging markets including unmanned systems, robotics, and biometrics. He holds a B.S. in mechanical engineering from Lehigh University.

Who should attend:
This webinar is aimed at researchers and engineers involved in quantum information science, especially those involved in designing experiments using imaging and spectroscopy.

About Princeton Instruments:
Princeton Instruments provides state-of-the-art CCD, sCMOS, ICCD, EMCCD, emICCD, X-Ray, and InGaAs cameras, spectrometers, spectrographs, imaging systems, optics, and coatings that are key to the success of your application. The company takes pride in partnering with customers to solve their most challenging problems in unique and innovative ways. Image courtesy of Dr. Wolfgang Ketterle, MIT.

Mark Your Calendar

Date: Wednesday, September 26, 2018

Time: 1:00 PM - 2:00 PM EDT

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Mac® -based attendees
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