



WEBINARS

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Photonics in Quantum Computing and Quantum Networking

Tuesday, May 11, 2021 12:00 PM - 1:00 PM EDT

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Presented by

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.: About This Webinar

This webinar with Peter McMahon, Ph.D., will describe how photonics plays a central role in several of the leading candidate technologies for building quantum computers and quantum networks. The webinar will discuss trapped ions, trapped neutral atoms, optically active defects and quantum dots in solid-state materials, and purely photonic approaches for realizing quantum processors.

The presenter will also talk about how superconducting circuits, which do not natively involve optics, can be coupled to photonics. The emphasis will be on giving a broad survey of the various photonics-related quantum technologies and the current state-of-the-art in each.

This webinar is the second presentation in Hamamatsu's Quantum Technologies Series. To view the previous session in this series, visit "[Introduction to Quantum Computer Hardware and Modalities](#)."

Who should attend:

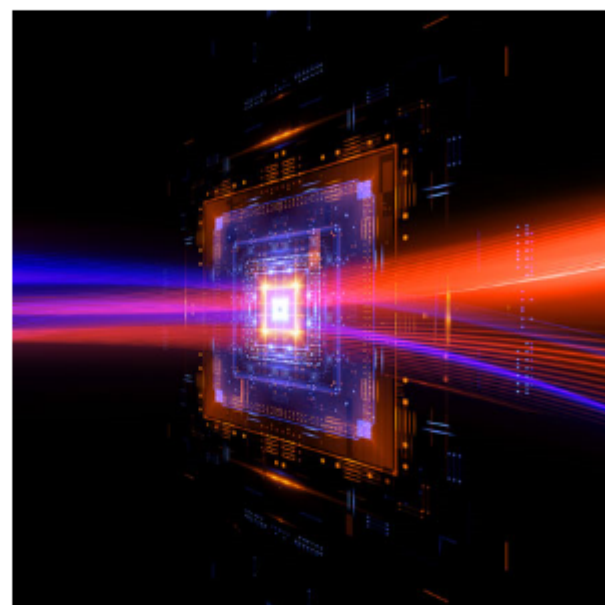
Those who have had some exposure to the theory of quantum computing and are interested in how quantum computers can be realized, with a focus on approaches that involve photonics.

About the presenter:

Peter McMahon, Ph.D., is an assistant professor of applied and engineering physics at Cornell University. His research lab investigates how to harness physical systems to perform computations more energy-efficiently or faster (or both) than conventional computers. He works on both classical and quantum computing with a variety of platforms, including photonics and superconducting circuits. He received his Ph.D. from Stanford University in electrical engineering and performed his postdoctoral work at Stanford in applied physics before moving to Cornell. McMahon is a CIFAR Azrieli Global Scholar in quantum information science and won a Google Quantum Research Award in 2019.

About Hamamatsu Corp.:

[Hamamatsu Corp.](#) is the North American subsidiary of Hamamatsu Photonics K.K. (Japan), a leading manufacturer of state-of-the-art devices for the generation and measurement of light, providing devices for applications ranging from life sciences to quantum technologies. These devices include photomultiplier tubes (PMT), single-photon avalanche diodes (SPAD), photodiodes, spatial light modulators, and scientific cameras.



.: Mark Your Calendar

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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

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iPad[®] 2 or later
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