



WEBINARS

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Toward Global Quantum Networks

Thursday, August 12, 2021 1:00 PM - 2:00 PM EDT

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Presented by



.: About This Webinar

The internet has had a revolutionary impact on our world. The vision of quantum internet — capable of transmitting quantum information — will provide novel applications that are provably impossible by communicating only classical information. An outstanding challenge of building large-scale quantum networks is to establish a quantum channel that can connect remote parties efficiently. Direct quantum communication with optical fiber network over continental scale suffers from fiber attenuation and exponential reduction of communication rate. To overcome this challenge, quantum repeaters and quantum satellites have been proposed and demonstrated to boost communication rates over long distances.

In this talk, Liang Jiang, Ph.D., of the University of Chicago will introduce these technologies with the promise of enabling global quantum networks. In addition, Jiang will discuss related research frontiers and promising applications of quantum internet. The webinar will conclude with a live Q&A.

This webinar is the third presentation in Hamamatsu's Quantum Technologies Series. To view the other sessions in this series, select from the following links:

- 1) "Introduction to Quantum Computer Hardware and Modalities"
- 2) "Photonics in Quantum Computing and Quantum Networking"
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Who should attend:

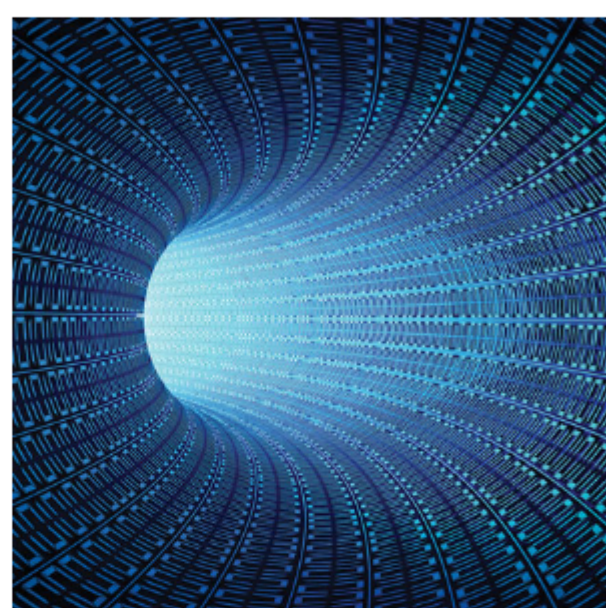
R&D scientists, engineers, and educators interested or involved in quantum networks and quantum computing. Those with a basic understanding of quantum technologies seeking to learn more about quantum communications and associated instrumentation.

About the presenter:

Liang Jiang, Ph.D., received his B.S. from Caltech in 2004 and Ph.D. from Harvard University in 2009. He then worked as a Sherman Fairchild postdoctoral fellow at Caltech. In 2012, Jiang joined the faculty of Yale University as an assistant professor and later as an associate professor of applied physics. He was awarded the Alfred P. Sloan Research Fellowship and the David and Lucile Packard Foundation Fellowship in 2013. In 2019, Jiang moved to his current position as professor at the University of Chicago Pritzker School of Molecular Engineering.

About Hamamatsu Corp.:

[Hamamatsu Corp.](#) is the North American subsidiary of Hamamatsu Photonics K.K. (Japan), a leading manufacturer of devices for the generation and measurement of infrared, visible, and ultraviolet light. These devices include photodiodes, silicon photomultipliers, photomultiplier tubes, scientific light sources, infrared detectors, photoconductive detectors, and image sensors. The parent company is dedicated to the advancement of photonics through extensive research. This corporate philosophy results in state-of-the-art products that are used throughout the world in scientific, industrial, and commercial applications.



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