

# Photonic Quantum Sensing SEMINAR

Quantum Sensing – the “Fraunhofer experience” as a link between fundamental research and real-world applications

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Fraunhofer Institute for Physical Measurement Technologies IPM



Date

Fri. August 1, 2025

Time

14:00-15:30

Hybrid

Katsura Hall/ Zoom

Registration

<https://x.gd/h8tiu>

Deadline:  
July 29

About ten years ago the science and technology community started to talk about the “second quantum revolution”: The preparation and control of quantum states in light and matter for computing, communication, simulation and sensing.

Fraunhofer IPM became part of this process at a very early stage, in the field of quantum sensing - in line with our mission “To Measure – To Control – To Optimize”.

In my presentation, I will use examples from photonic quantum sensing and quantum magnetometry to provide an insight into how the “quantum sensing landscape” is structured in Germany and how we as a Fraunhofer Institute are involved in this area together with partners from research and industry.

Organizer: Photonic Quantum Sensing Science and Engineering Center

Co-organizer: ERATO Takeuchi, KU-PhotoniQS, QLEAP, WISE Program “Innovation of Advanced Photonic and Electronic Devices”, Kyoto University

Chair: Shigeki Takeuchi (Department of Electronic Science and Engineering, Kyoto University)

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