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# Seminar über Quanten-, Atom- und Neutronenphysik (QUANTUM)

May 14, 2020 at 5 p.m. c.t.  
<https://zoom.us/j/94520261050> (Passwort-Anfrage an "stuckker@uni-mainz.de")

Note: Achtung: Uhrzeit geändert!

Prof. Dr. Kai-Mei Fu  
Depts of Physics and Electrical and Computer Engineering, University of Washington, Seattle, USA

## **Single defects in crystals for quantum network applications**

Single defects in crystals, often termed "quantum defects", are promising qubit candidates for quantum network applications. I will first provide an overview of the types of properties we seek in single defects, how we create these defects and how we measure them, illustrated with examples from my group's research. I will then present the semiconductor-on-diamond integrated photonics platform my group is developing to scale networks of many entangled quantum defects.

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