

Abstract Submitted
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Optical Fiber Tapers for Characterization of Novel Photonic Crystal Devices JENNA HAGEMEI^ER, Physics Department, University of California, Santa Barbara, JAN GUDAT, Huygens Laboratory, University of Leiden, The Netherlands, SUSANNA THON, Physics Department, University of California, Santa Barbara, DIRK BOUWMEESTER, Physics Department, University of California, Santa Barbara and Huygens Laboratory, University of Leiden, The Netherlands — Optical fiber tapers are a useful tool for near-field spectroscopy of solid state devices. There are advantages to using fiber tapers rather than other waveguides because they can be moved spatially with respect to the device being studied, a single taper can be used for both pumping and data collection, and they can be used to probe bare cavities. The experimental procedures and challenges for building these micron-scale tapers will be discussed, as well as their uses for probing new kinds of photonic crystal cavities.

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