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Accession number:20113114207814 Title: Blue light generation in photonic crystal f ibers with 1-µm femtosecond laser pulses Authors: Zhang, Xinben (1); Dai, Nengli (1); Peng, Jinggang (1); Li, Jinyan (1) Author affiliation:(1) Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology, Wuhan 430074, China Corresponding author:Li, J.(ljy@mail.hust.edu.cn) Source title: Chinese Optics Letters Abbreviated source title: Chin. Opt. Lett. Volume:9 Issue:7 Issue date:July 2011 Publication year:2011 Article number:071901 Language:English ISSN:16717694 Document type: Journal article (JA) Publisher: Science Press, 18, Shuangqing Street, Haidian, Beijing, 100085, China Abstract: Using 300-fs 1039-nm Yb-doped fiber laser, we experimentally demonstrate blue light

Abstract. Osing 500-18 1059-101 10-doped fiber laser, we experimentally demonstrate blue light generation in a high-and high nonlinear photonic crystal fiber (PCF). The zero dispersion wavelength of PCF is 793 nm, detuning 245.8 nm from the pump wavelength. PCF allows a frequency conversion exceeding the octave of pump wavelength. The visible component of the measured output spectrum occurs in the fundamental mode and spans from 391.3 to 492.3 nm. The peak wavelength of 441.8 nm has a frequency detuning of 390 THz from the pump wavelength of 1039 nm.