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In this paper we present our recent result on utilizing resonant/bandgap fiber designs to achieve high performance ytterbium doped fiber amplifiers for achieving diffraction limited beam quality in large mode area fibers, robust bending performance and gain shaping for long wavelength operation of yb-doped amplifiers.

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Authors: Alkeskjold, T. T. (Intern), Laurila, M. (Intern), Olausson, C. B. T. (Intern), Weirich, J. (Intern), Lyngsø, J. K.

(Ekstern), Noordgraaf, D. (Intern), Petersen, S. R. (Intern), Johansen, M. M. (Intern), Hansen, K. R. (Intern), Lægsgaard, J. (Intern), Maack, M. D. (Ekstern)

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