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Postdoctoral Position in Ultrafast Fiber Lasers

We are seeking candidates for a postdoctoral position in ultrafast fiber lasers. Our work ranges from analytic theory to device engineering and everything in between. We also work with collaborators on applications to nonlinear microscopy. The list of recent papers on the next page should provide an idea of what we do in this area. Experience with fiber lasers is desirable but not required.

The position is available September 1, 2009. Interested candidates should contact Frank Wise.

Selected recent publications on short-pulse fiber sources

- F. O. Ilday, J. Buckley, H. Lim, and F. W. Wise, "Generation of 50-fs, 5-nJ pulses at 1.03 μm from a wave-breaking-free fiber laser," *Opt. Lett.* **28**, 1365 (2003).
- F. O. Ilday, J. Buckley, F. W. Wise, and W. G. Clark, "Self-similar evolution of parabolic pulses in a laser," *Phys. Rev. Lett.* **92**, 213902 (2004).
- S. Zhou, L. Kuznetsova, A. Chong, and F. W. Wise, "Compensation of nonlinear phase shifts with third-order dispersion in chirped-pulse fiber amplifiers," *Opt. Express* **13**, 4869 (2005).
- J. Buckley, S. W. Clark, F. W. Wise, "Generation of 10-cycle pulses from an ytterbium fiber laser with cubic phase compensation," *Opt. Lett.* **31**, 1340 (2006).
- Chong, J. Buckley, W. Renninger, and F. Wise, "All-normal-dispersion femtosecond fiber laser," *Opt. Express* **14**, 10095 (2006).
- Chong, W. Renninger, and F. W. Wise, "Properties of normal-dispersion femtosecond fiber lasers," *J. Opt. Soc. Am. B* **25**, 140 (2008).
- W. Renninger, A. Chong, and F. W. Wise, "Dissipative solitons in normal-dispersion fiber lasers," *Phys. Rev. A* **77**, 023814 (2008).
- W. Renninger, A. Chong, and F. W. Wise, "Giant-chirp oscillators for short-pulse fiber amplifiers," *Opt. Lett.* **33**, 3025 (2008).
- K. Kieu, W. Renninger, A. Chong, and F. W. Wise, "Sub-100-fs pulses at watt-level powers from a dissipative-soliton fiber laser," *Opt. Lett.* **34**, 593 (2009).
- K. Q. Kieu, B. G. Saar, G. R. Holtom, X. S. Xie and F.W. Wise, "High-power picosecond fiber source for coherent Raman microscopy," *Opt. Lett.* **34**, 2051 (2009).