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Title: Ultrafast X-ray absorption spectroscopy: structural dynamics in solution at high spatial and temporal resolution

Abstract: In this talk, I will outline the use of time-resolved synchrotron-based x-ray absorption spectroscopy (XAS) as a viable tool for studying photoinduced structural dynamics in solution. Recent results concerning the use of picosecond XAS to study the electronic and geometric changes associated with the photoinduced Fe(II) spin crossover reaction will be discussed. Future experiments and prospects for femtosecond XAS will be highlighted.