

Site-selective chemical dynamics with femtosecond precision

Friday 15 November 2024 11:20 (20 minutes)

In this presentation, I will discuss advanced experimental techniques available at the Swiss Free Electron Laser (SwissFEL) for probing time-resolved chemical dynamics with femtosecond temporal resolution. My talk will focus on two key areas. First, I will explore time-resolved X-ray photoemission spectroscopy on gaseous targets, potentially extending the method to aerosol systems. Second, I will present time-resolved X-ray absorption spectroscopy, emphasizing its applicability to liquid-phase samples using soft X-rays. A nanometer-thin liquid sheet, developed and characterized for these studies, enables experiments in transmission geometry, covering a wide energy range from Vacuum UV to soft X-rays.

Significance

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Session Classification: Ultrafast or time-resolved