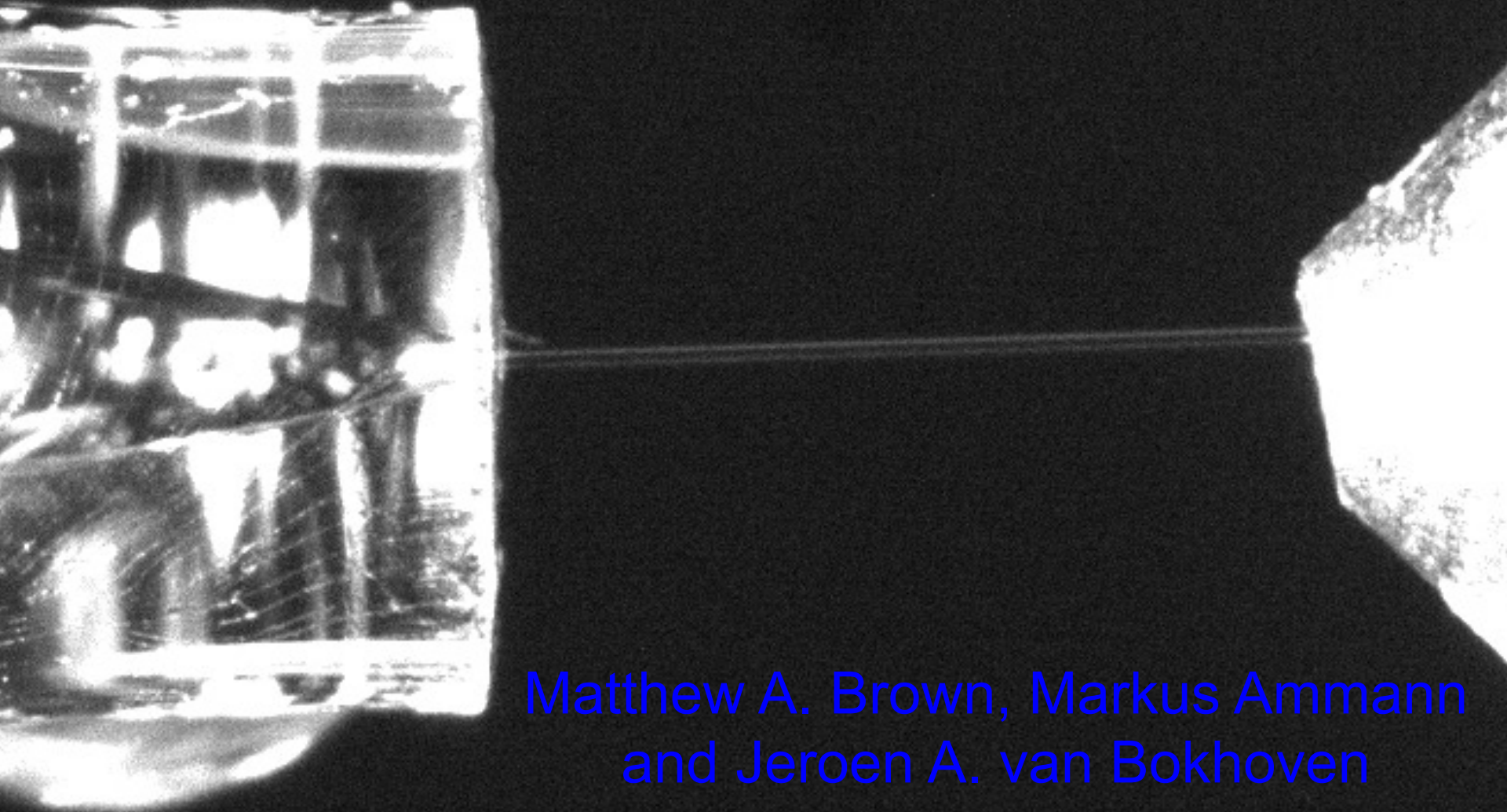
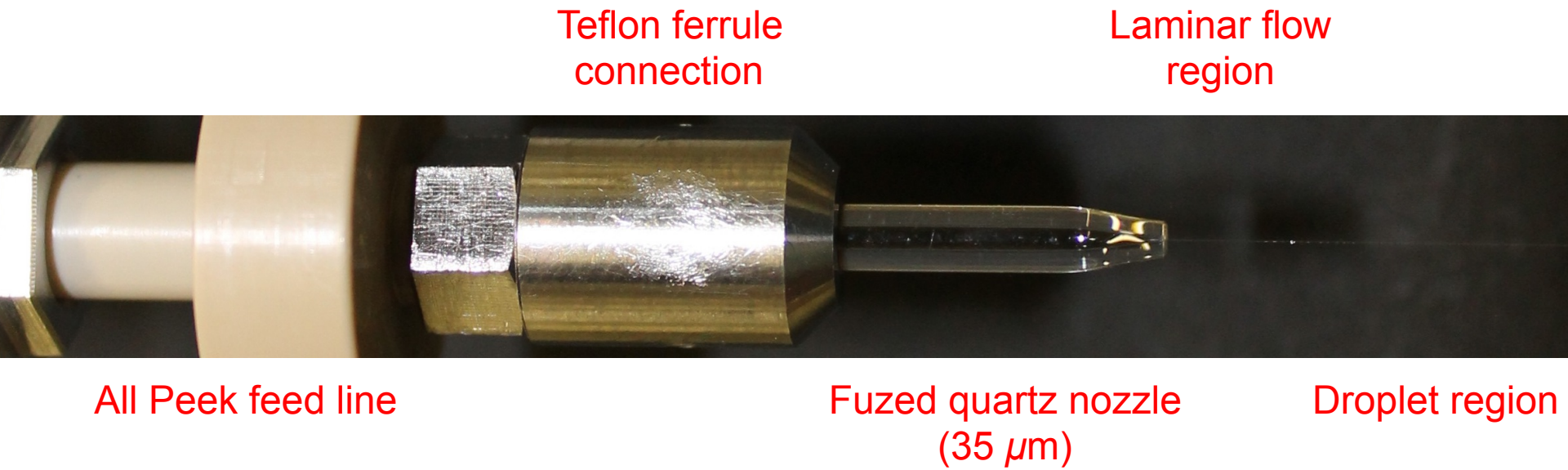


Fast moving liquid interfaces for FEL studies:
Spectroscopy, scattering and diffraction experiments



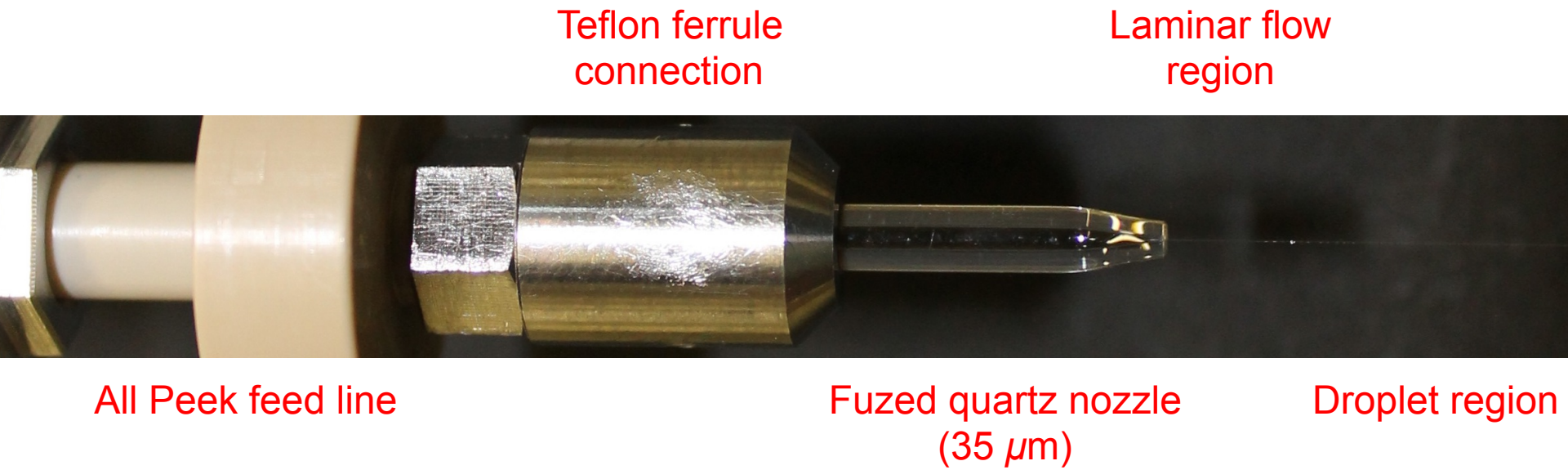
Matthew A. Brown, Markus Ammann
and Jeroen A. van Bokhoven

How our liquid jet works



Interface exchange at approx. 150 m/s

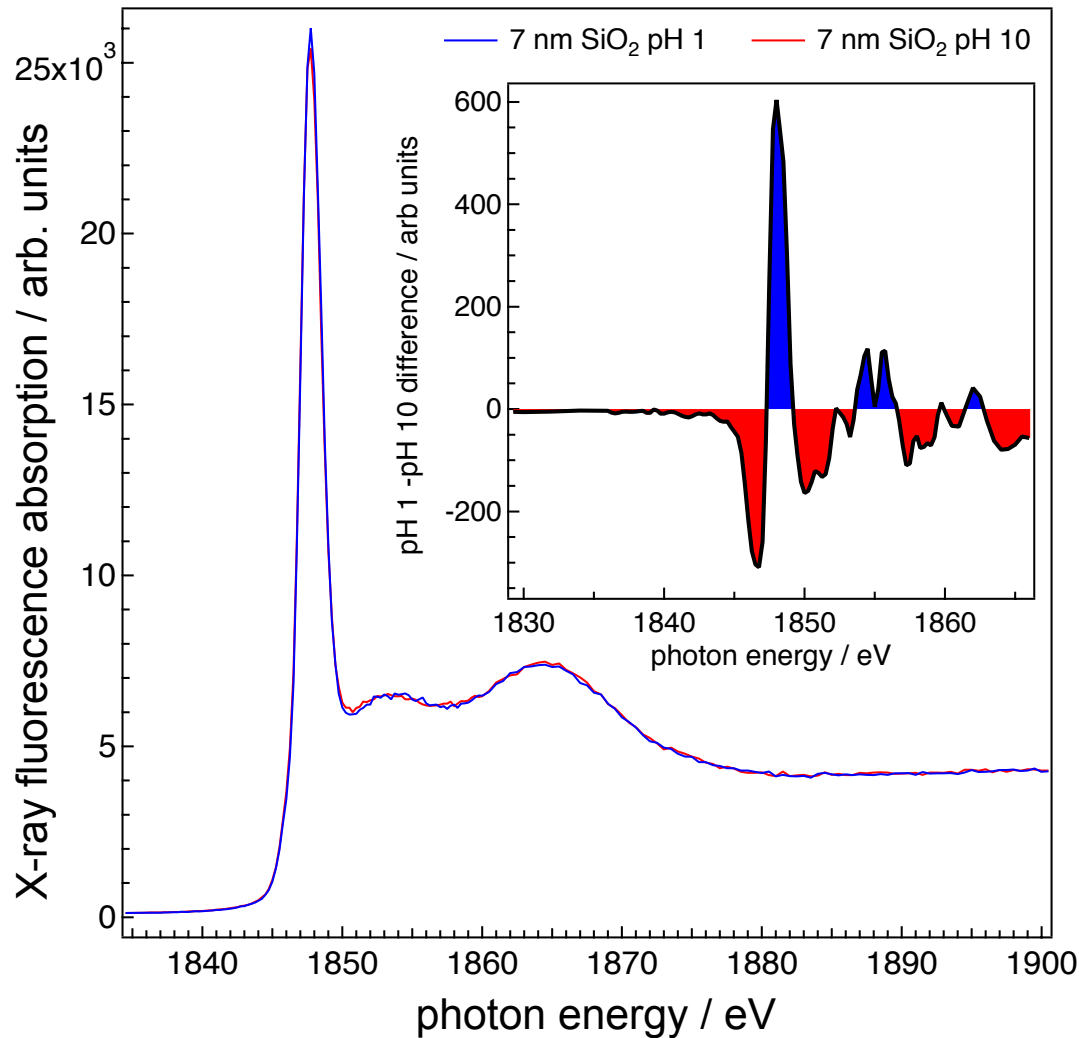
How our liquid jet works



Alternative setup would include a piezoelectric element around the Teflon ferrule connection to break the jet into well controlled μm sized droplets at a fixed repetition rate

Liquid jet spectroscopy at Phoenix

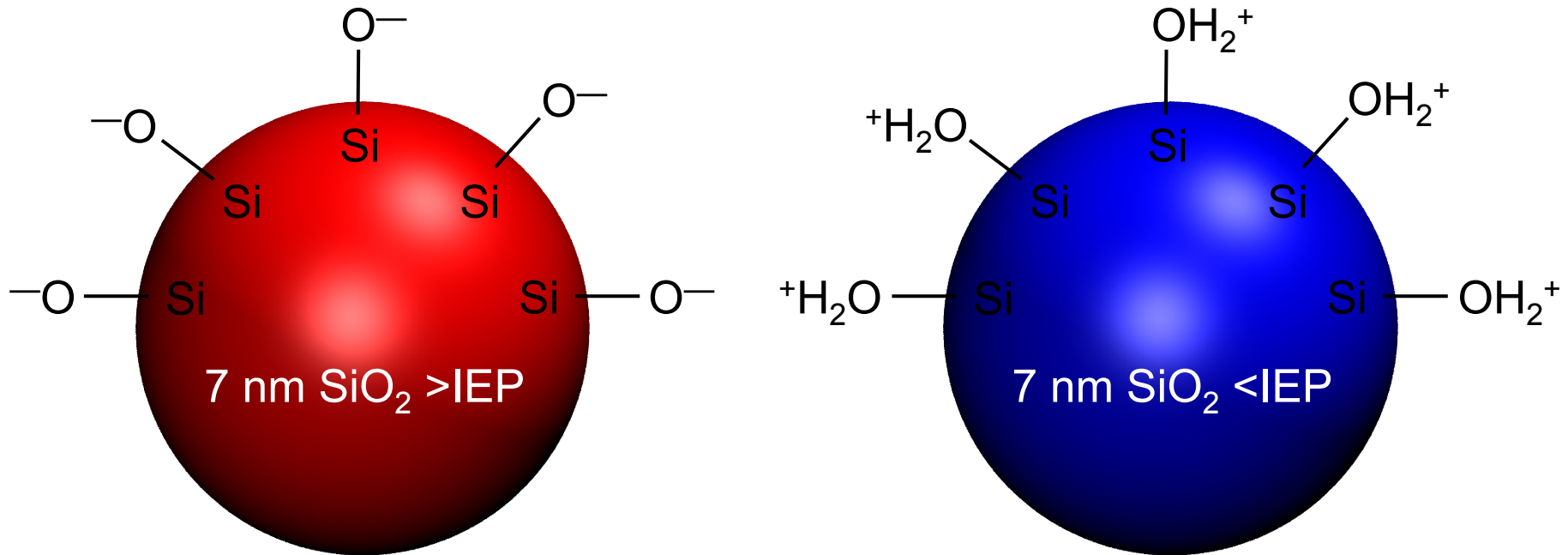
3 wt % aqueous colloidal 7 nm SiO₂



In collaboration with Thomas Huthwelker and Markus Janousch

Liquid jet spectroscopy at Phoenix

3 wt % aqueous colloidal 7 nm SiO_2



Our liquid jet is interdisciplinary (chem, phys, bio) and can be used for spectroscopy, scattering and diffraction



Thank you for your attention