

Beamtime report for CH-6241 "Shining light on the mixed-valency in the Creutz-Taube ion"

The determination of the valence state of the Ru sites was hampered by radiation damage. We have spent significant time trying measurements with more and more reduced flux densities, by insertion variées attenuators (8 mkm, 16 mkm, 50 mkm of aluminium) was still present. We also attempted dilution of the samples in carbon powders, but strong powder diffraction from the carbon matrix was strongly distorting the spectra. This is probably the way to measure the spectra, but we had no possibility to use an energy-resolved detector.