



MAX-PLANCK-GESELLSCHAFT

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## In situ measurement of X-ray absorption spectra of molybdenum oxide and zirconia based materials.

### Abstract:

The seminar consisted of an introduction to principle component analysis (PCA), followed by some examples of the work which we do in X-ray absorption spectroscopy (XAS). Examples from the zirconia based catalysts included Mn, Fe, and Zr K-edge measurements and the use of PCA to draw conclusions from these data. A brief description of the dispersive X-ray absorption spectroscopy technique was given, and then some results from Mo K-edge measurements of Mo oxide catalysts, obtained using dispersive XAS, were presented.