

# XPS Workshop

## Goal

The workshop mainly aims at researchers who (plan to) include X-ray Photoelectron Spectroscopy as characterization method in their studies.

You will learn about the fundamentals, the potential and the restrictions of the method.

The main goal of the workshop is to improve your skills in planning your XPS measurements and in peak fitting / interpreting the measured spectra.

## Schedule

The workshop will mainly be held online (with Thomas Diemant) but you will also perform an XPS measurement in groups of two. These measurements can either be done at the IAM-ESS with Vanessa Trouillet for researchers from Karlsruhe or at the HIU with Thomas Diemant for researchers from Ulm. Individual appointments will be made for this with the groups.

Session	Format	Date 2023
Introduction	Online lecture	24. Nov, 09:00 (ca 2 h)
Solve work sheet	Individually	Until 30. Nov
Discussion of work sheet	Online seminar	04. Dec, 09:00 (ca 2h)
XPS in battery research	Online lecture	04. Dec, 13:00 (ca 2 h)
XPS measurement	In the lab	04. – 08. Dec (ca 1 h per group)
Demonstration of peak fitting	Online lecture	11. Dec, 09:00 (ca 2 h)
Exercise for peak fitting	Individually	11. Dec, 13:00 (ca 4 h)
Discussion/interpretation of peak fitting results	Online seminar	12. Dec, 11:00 (ca 2 h)
Conclusion	Online seminar	12. Dec, 13:00 (ca 1 h)

## Registration

The workshop is open for GS-EES, CELEST and HIU members.

GS-EES members will gain 1 CP within „Scientific Training“

The number of participants for the XPS measurements (mandatory for gaining GS-EES CPs) is restricted to 12 in Karlsruhe and 12 in Ulm. First come, first served.

There are no restrictions for the number of participants in the online lectures.

Please register [online](#) until 05 November 2023.