

EXSA Quantitative Methods in X-Ray Spectrometry

Spring School and Workshop

EXSA, the **European X-ray Spectrometry Association**, is a non-profit organisation, founded and supported by X-ray spectroscopists from science and from industry. With the second edition of EXSA school and workshop on Quantification Methods in X-ray Spectrometry, EXSA pursues its main objective to promote innovation and cooperation among spectroscopists and analysts within Europe.

Spring school

A two-day school on Quantitative methods in X-ray Spectrometry will be held May 13/14, 2019 in Lisbon. The school will dispense high-quality education via lectures and hands-on training sessions on various quantification aspects in X-ray Spectrometry.

The basic notions of interaction of X-ray with matters are required to fully make use of this school. In such, the school targets young scientists at the graduated, PhD or early post-doc levels.

The attendees are encouraged to participate in the workshop, in order to make use of the interdisciplinary platform created for strengthening their interactions within the XRS community.

School Topics

- Quantification procedures in XRF
- Quantification procedures in GI/GEXRF
- Monte-Carlo methods for quantification
- Elemental abundances of astrophysical objects from X-ray spectra
- Combined PIXE and RBS method for quantification of stratified samples
- Compton-Rayleigh ratios for dark matrix identification
- Quantitative methods and statistical analysis of spectral data with ROOT

Submission deadline: March 15th, 2019

Workshop

A two-day workshop on Quantitative methods in X-ray Spectrometry will be held in Lisbon on May 15/16, 2019 and will be immediately followed by a meeting of the Fundamental Parameter Initiative May 17.

The workshop aims at fostering the interaction between young scientists and experienced researchers, as well as between academic and industrial scientists. It will constitute excellent networking and knowledge-exchange possibilities, and a platform to advance the debate on the current challenges in XRF quantification.

Workshop Topics

- Quantitative X-ray absorption spectroscopy (XANES, XAFS, EXAFS)
- Quantitative GI/GE XRF and TXRF
- Quantitative high-resolution and μ -XRF (2D and 3D)
- Quantification with Monte Carlo methods
- Quantification with the Fundamental Parameter approach
- Fundamental Parameters - measurements and calculations

EXSA would like to thank its platinum, gold, and silver sponsors



Further information at www.exsa.hu/quant2019

EXSA We Promote Cooperation of X-Ray Spectroscopists and Analysts within Europe