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## UC3 and UC4: X-ray absorption spectroscopy & X-ray emission spectra, RIXs etc.

*Monday 24 March 2025 14:54 (7 minutes)*

In the frame of DAPHNE4NFDI, an X-ray absorption spectroscopy (XAS) reference database called RefXAS has been set-up where users are provided with well curated XAS reference spectra along with related metadata fields and online processing tools for visualizing the data. The developed online procedure enables users to submit a raw dataset along with its associated metadata via a dedicated website for inclusion in the database. The published data at the database can be easily linked to the raw data available at other repositories. Quality criteria formulated for the uploaded reference data at the database make users aware of the usability of the data. These quality criteria, which are unique to RefXAS, are further employed for automatic quality check of the uploaded data which is then followed by manual curation at the interface. Different XAS data formats can be uploaded to RefXAS. The output data format consists of all the important metadata provided during upload including quality criteria, curation details and bibliographic details of the data.

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