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Access to Open Data at DESY for the scientific community

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DESY, a leading European synchrotron facility, has taken a significant step towards making research data publicly available by establishing a metadata catalogue and data analysis portal. This development is in line with the Open and FAIR data principles, which aim to make data easily discoverable, accessible, and reusable for the wider scientific community.

The metadata catalogue, Scicat, provides a comprehensive overview of public research data, making it easier for scientists to find and access relevant data sets. The catalogue is accessible through federated user accounts, allowing community members to log in using their institutional accounts via eduGAIN, HelmholtzID, NFDI, and soon EOSC-AAI.
Furthermore, the data analysis portal, VISA, enables researchers to explore and analyze the Open Data sets, which are provided in commonly accepted data formats such as HDF5, NeXuS, openPMD, and ORSO. The provision of technical and scientific metadata ensures that the data sets are reusable for further analysis and research.

By establishing this infrastructure, DESY is contributing to the growing movement towards Open Science, as requested by funding agencies and scientific journals. The blueprint for DESY's Open Data solution will be shared with the wider community through HIFIS, enabling other research institutions to benefit from this development.

The talk will give a short overview of the established services and their architecture. Demonstrating the workflow of using a previously minted DOI from the Open dataset to find the dataset description in the metadata catalogue and subsequently the corresponding dataset itself in the analysis portal will be the focus of the talk. An idea of how to leverage this portal package by federating its capabilities in the future will conclude the talk.

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