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Unified access to photon and neutron data throughout Europe - the SciCat implementation of the PaNOSC Search

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As part of the European Open Science project, PaNOSC and the sister project ExPaNDS have developed a federated access API to public data held at any of the participating photon and neutron sources. The API and accompanying web front end support domain specific queries. This presentation will briefly cover the PaNOSC search API but mainly focus on the SciCat implementation, which is the data catalogue in operations at the partners ESS, PSI and MAX IV.

We will explain how the PaNOSC data model is mapped to SciCat data, how filtering by experimental technique and parameters is implemented and importantly how the relevancy of search results are estimated. This “scoring service” assigns a significance score to each dataset result returned to PaNOSC and allows inter-facility sorting of the results. For this the data in the catalogue had to undergo a data curation process, which we will illustrate and explain based on selected queries and their results.

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