APS Scientific Computation Seminar Series

Speaker: Carlo Minotti
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Title: SciCat and SciLog: How the Scientific Data Curation Group Helps the Scientists at PSI

Date: March 13, 2023

Time: 1:00 p.m. (Central Time)

Location: Join ZoomGov Meeting
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Hosts: Mathew Cherukara and Nicholas Schwarz

Abstract: This presentation will introduce SciCat and SciLog to the general audience. SciCat is a metadata catalogue developed as a collaboration between PSI, ESS and MAXIV. We will present the guiding principles and the needs that this project strives to address. We will list the features currently implemented, from ingestion to publication, with an emphasis on the user experience. We will also showcase some external tools that leverage the SciCat API. We will showcase how SciCat is used at PSI and highlight the technical challenges with the underlying software architecture, and the integration work that has been done when a given metadata catalogue, specifically SciCat, is deployed to a given facility. SciLog is an electronic logbook developed at PSI and in its early adoption in the beamlines. We will list the features currently implemented and their use by the scientists, underlying the needs that drove its genesis. We will cover the topic of CI/CD driven deployments, in particular for parallel installations into different test and production environments based on Kubernetes. We will conclude this presentation with the future roadmap for the project.