

ARW 2024

Accelerator Reliability Workshop

MAX IV and ESS are Excited and Pleased to Announce their Joint Hosting

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Type: **Oral**

SOLEIL tools to improve the reliability of the accelerators.

Tuesday, 25 June 2024 11:00 (30 minutes)

The SOLEIL synchrotron is the French 3rd generation synchrotron light source. In operation since 2007, it supplies photon beams to 29 beamlines with a maximum intensity of 500 mA, 5000 hours per year.

After spending the first ten years improving the reliability of our equipment, we are getting closer to our goal, which is: 99% availability of the photon beams and 100 hours MTBF. We are constantly trying to maintain these good results while putting a lot of work into the upgrade process of our facility.

We will present the tools we have implemented over the years to track incidents, monitor real-time operational statistics, or allow support groups to monitor many parameters live through customizable dashboards. In addition, we have established a set of processes to analyze major incidents and implement the necessary corrective actions to prevent their recurrence.

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Session Classification: Failures / Unintended Consequences & Analysis Techniques