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Secondary activities of the SOLEIL operators

SOLEIL is the French third generation synchrotron light source in operation since 2007 and providing photon beams to 29 beamlines with a maximum intensity of 500 mA, 5000 hours per year.

For about ten years, the eight operators of the operation group have developed their own programs, first in GlobalSCREEN and then in LabVIEW and python, to ensure their main functions, namely to drive the accelerators with a 98-99% beam availability with top performance and stability. Today, they maintain these software programs and continue to develop new ones adapted to changing needs.

In addition to their primary operation roles, some members of the group also have support duties for other groups in the organization.

One operator spent 20% of his time working with the accelerator physics group for 5 years.

Currently, three operators devote 20% of their time in relation to other groups:

- Two for the cryogenic cell in charge of the proper operation of the cryogenic system with on-call duty.

- One for the control group in order to develop a prototype for web-based supervision.

One operator will occasionally join the Metrology and Alignment group.

Operators can also participate in specific projects with other groups:

- One operator developed an application used by the pulsed power supply teams to control a test bench.

- Two operators carried out a project for the Electronics and Control Acquisition group, which consisted of developing a program in python capable of completely automating the process of providing configuration settings for motorization systems.

These fruitful collaborations will continue as they allow the acquisition of additional technical skills useful for the operators and for the group in view of the forthcoming SOLEIL upgrade.

Session

Session II: Running a Beam Particle Accelerator during the COVID-19 pandemic.

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Session Classification: Poster Session

Track Classification: Track IV Poster: Any subject related to Accelerator Operations