



Contribution ID: 84

Type: **not specified**

## PO48 - Python-based Operator Tools and Interfaces at SNS

*Tuesday, 12 September 2023 15:10 (20 minutes)*

“Tools developed for the control room need to be fast, effective, and modular. At the Spallation Neutron Source (SNS), operators have developed software to test tuner motors on the superconducting linac and a graphical user interface (gui)-based application to automatically tune beam losses and lower residual activation levels in the tunnels. Future plans include an app to automatically condition RF cavities during startup. All of these applications share common themes of being intuitive, easy to use, and adaptable. With this uptick in python-based tools being written, the physics group has rewritten the physics model interface applications in Python to make them more accessible in the control room. With tools such as Python and Qt and the clear migration towards them, it is easier than ever to produce high-level, interactive applications specific to the operator’s ever-changing needs.

\*ORNL is managed by UT-Battelle, LLC, under contract DE-AC05- 00OR22725 for the U.S. Department of Energy.”

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**Session Classification:** Poster / Demo Sessions