

## WAO'18: Workshop on Accelerator Operations



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# Orbit Display: A PyQt Tool for Viewing Beam Trajectories in Real-Time

*Monday, October 1, 2018 3:30 PM (30 minutes)*

Orbit Display is an operator-created application that displays real-time data from over 100 beam position monitors. Originally written for the Linac Coherent Light Source (LCLS) accelerator, it has also been successfully ported to a different machine and control system at the European XFEL. This talk will discuss how an operator perspective influenced the design, the architecture of the application, the performance compared to older tools, and the experience of adapting it to the needs of a different accelerator.

**Primary author:** GIBBS, Matthew (SLAC National Accelerator Laboratory)

**Presenter:** GIBBS, Matthew (SLAC National Accelerator Laboratory)

**Session Classification:** Machine Optimization

**Track Classification:** Machine Optimisation through the Operators