

XAL Virtual Accelerator

Online model based machine
simulator

XAL Virtual Accelerator

- Simulate real machine with physics model.
 - Can test invasive apps before production.
 - Can “replay” previously saved machine state for offline analysis or other purposes.
- Easy-to-use GUI application

How XAL VA Works

- Using XAL accelerator (XML) file.
 - Can select any available beamline w/o manual configuration.
- Using XAL online model.
- Using a simple Portable Channel Access Server to serve up PVs.
- A GUI for start/stop of the VA, setting noise and offset.

Virtual Accelerator App Diagram

On-line Model Virtual Accelerator

