Contribution ID: **24** Type: **Oral presentation + Demo**

Collecting and analyzing data at Beamline 8.3.2 (microCT) at the Advanced Light Source

Thursday, February 25, 2021 4:50 PM (40 minutes)

I will demonstrate the process of setting up scans, collecting data, and doing image processing at Beamline 8.3.2 (microCT) at the Advanced Light Source (ALS) at Lawrence Berkeley National Laboratory. Like many of the beamlines at the Advanced Light Source (ALS), Beamline 8.3.2 uses Labview for beamline and enstation control, which provides convenient graphical interfaces for doing many tasks, and I will demonstrate how these work for users. I will also demonstrate the two approaches to data analysis we are using. One is based on workstations located at the beamline, and uses both python scripts and a graphical interface called Xi-CAM. The other is based on using NERSC, our local high performance computing center. This second approach uses high performance data transfer with globus and the computing jobs are launched through a jupyter web interface.

Presenter: DILWORTH Y. PARKINSON (Advanced Light Source)