

APS Scientific Computation Seminar Series

Speaker: Francesco De Carlo
APS, Argonne

Title: X-ray 3D Imaging – Experiment Workflow for Automation and
Reproducibility

Date: Monday, September 21, 2020

Time: 1:00 p.m.

Location: <https://bluejeans.com/650209272/>

Hosts: Nicholas Schwarz and Mathew Cherukara

Abstract:

Thanks to the increased speed of area detectors, X-ray tomography evolved from looking at static samples to monitoring the 3D evolution of dynamic systems. This presented new challenges in data collection and data processing that required the introduction of streaming analysis and experimental steering. This talk will describe the current tools for data collection and data analysis in use at the APS tomography beamlines to enable automation and data collection & data analysis reproducibility.