

"Experimental Control Systems at LCLS"

Christina Pino

Sac State Physics & Mechanical Engineering Alumna, Class of 2020 and SLAC National Accelerator Laboratory

Tyler Johnson

Sac State Chemistry Alumnus, Class of 2014 and SLAC National Accelerator Laboratory

For more than a decade the Linac Coherent Light Source (LCLS) at SLAC National Accelerator Laboratory has been enabling ground breaking research in the fields of physics, chemistry, biology, and material science. Currently the LCLS is amid a massive upgrade, with new super-conducting RF cryo modules allowing the facility to move from 120Hz repetition rate to 1MHz, as well as higher X-ray energies than ever before. This upgrade to the linac has prompted upgrades to the instruments, or "hutches", that make use of these X-rays. This presentation will describe the instruments, controls, and data systems that enable the unique and exciting science performed at LCLS every day.

Thursday, Nov. 4, 2021 4:00 - 5:20PM

Talk will be via Zoom - contact physics@csus.edu for links or visit our Colloquium Spotlight at www.csus.edu/physics

Open & Free to all students, faculty and public