

Results from CXLS commissioning

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The Compact X-ray Light Source (CXLS) is a compact source of femtosecond pulses of x-rays that is now commissioning in the hard x-ray energy range 6-20 keV. It collides the electron beam from recently developed X-band distributed-coupling, room-temperature, standing-wave linacs and photoinjectors operating at 1 kHz repetition rates and 9300 MHz RF frequency with a Yb:YAG 1030 nm laser beam operating at high peak and average power at 1 kHz repetition rate with pulse energy up to 200 mJ. We present the performance of the CXLS accelerator, laser, and timing systems, and initial x-ray results.

Footnotes

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Author: GRAVES, William (Arizona State University)

Co-authors: DUPRE, Alan (Arizona State University); GARDECK, Alex (Arizona State University); ROS, Alexandra (Arizona State University); MARTINEZ, Anastasia (Arizona State University); SEMAAN, Antonella (Arizona State University); SANDHU, Arvinder (University of Arizona); LIEBICH, B. (Arizona State University); COOK, Brandon (Arizona State University); BELL, Christina (Arizona State University); SMITH, Dean (Arizona State University); ROS, Elena (Arizona State University); EVERETT, Eric (Arizona State University); BABIC, Gregory (Arizona State University); LOOS, Henrik (SLAC National Accelerator Laboratory); LEE, Hyung Seo (Arizona State University); STANTON, Jade (Arizona State University); FALCONER, Jasmin (Arizona State University); TINLIN, Joseph (Los Alamos National Laboratory); VELA, Juan (Arizona State University); ECKROSH, Kevin (Arizona State University); MALIN, Lucas (Arizona State University); HOLL, Mark (Arizona State University); HUSSAIN, Mukhtar (Arizona State University); JIANG, P. (Arizona State University); BROWN, Paul (Communications & Power Industries, Inc.); FROMME, Petra (Arizona State University); LARSEN, Rachel (Arizona State University); JASWAL, Rejul (Arizona State University); KIRIAN, Richard (Arizona State University); KAINDL, Robert (Arizona State University); REDNOUR, Roy (Arizona State University); BOTHA, Sabine (Arizona State University); TANTAWI, Sami (SLAC National Accelerator Laboratory); TEITELBAUM, Samuel (Arizona State University); TILTON, Sean (Arizona State University); TRIPATHI, Shreya (Arizona State University); JACHIM, Stephen (Arizona State University); BROWN, Taryn (Arizona State University); DELA ROSA, Trixia (Arizona State University); DOLGASHEV, Valery (SLAC National Accelerator Laboratory); MA, Xinyi (Arizona State University)

Presenter: GRAVES, William (Arizona State University)

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