

The European X-Ray Free Electron Laser Facility And Its MicroTCA-Based Accelerator Control System

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The new European XFEL (EuXFEL) is a 3.4 km long X-ray Free-Electron Laser facility and consists of a superconducting, linear accelerator with initially three undulator beam lines. It is now in production mode and first photon beam has been successfully delivered to photon science experiments since September this year. The accelerator control system for this facility has been developed and implemented while following the design principle of using standardized hardware and open source software. Almost all hardware used for beam diagnostics has been based on the MicroTCA.4 platform. This talk will give an overview of the large-scale installation of MicroTCA hardware used for EuXFEL accelerator control system.

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