Contribution ID: 43 Type: not specified

Overview of MicroTCA usage at European XFEL

Wednesday 7 December 2022 09:45 (15 minutes)

The European X-Ray Free-Electron Laser Facility (European XFEL) is a 3.4 km long X-ray Free-Electron Laser facility with a superconducting, linear accelerator and three undulator beam lines, with two new on the way. User experiments have taken place since September of 2017; nowadays, typically 3 experiments run in parallel, one in each beam line.

In this overview, we present how MicroTCA based solutions are used in our facility. The platform is at the centre of timing distribution, data processing from large 2D detectors, fast digitization and processing of pulse signal. We will also talk about our efforts in integrating new solutions and how these could bring the platform closer to the user experiments requirements and communicate with other platforms used in the facility.

Primary author: FERNANDES, Bruno (European XFEL)

Presenter: FERNANDES, Bruno (European XFEL)

Session Classification: Session 3

Track Classification: Applications in research facilities