

MicroTCA for Scientific Experiments and Photon Diagnostics at European XFEL

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The European X-Ray Free Electron Laser will provide x-ray laser pulses shorter than 100fs at wavelengths between 0.05 and 6 nm at a repetition rate of 4.5MHz in bursts of up to 2700 pulses every 100ms delivered to several experiments. It will allow in-depth research in various scientific fields. For that purpose, a large number of different detectors and diagnostic systems are required. In many cases MicroTCA based acquisition and pre-processing solutions were selected or developed. In this talk a brief overview of MicroTCA applications and related FPGA based processing algorithms will be presented.

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