

MTCA.4 Components Designed by Polish Electronic Group for ESS LLRF Control System

Wednesday 6 December 2017 15:15 (15 minutes)

The LLRF control system for the European Spallation Source (ESS) is based on a MTCA.4 standard using COTS and in-house developed components to control accelerating cavities. Custom designed MTCA.4 components of the ESS LLRF System are developed by PEG - Polish Electronic Group, consortium of three scientific units from Poland, National Center of Nuclear Research (NCBJ), Warsaw University of Technology (WUT) and Łódź University of Technology (LUT) within Polish in-kind contribution to ESS.

Technical details of the MTCA.4 components designed by PEG for ESS will be presented: the LO generation RTM, Piezo RTM for cavity resonance control and RTM Carrier - an AMC board for supporting LO and Piezo RTMs.

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Session Classification: Session 3

Track Classification: Application in research facilities and industry