

Digital LLRF at ELBE: Performance and first impressions of user operation

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A digital LLRF control has been implemented at the CW linac ELBE at Helmholtz-Zentrum Dresden-Rossendorf. The system is based on the MicroTCA.4 standard and drives four superconducting TESLA cavities and two normal conducting buncher cavities. The system enables a higher flexibility of the field control, improved diagnostics and field stability compared to the analogue system which was used before. The presentation will give an overview on the system performance in terms of noise measurements. In addition a review of the user operation started in August 2020 will be given. Finally, planned future features are presented.

Primary author: ZENKER, Klaus (Helmholtz-Zentrum Dresden-Rossendorf)

Co-author: Dr KUNTZSCH, Michael (HZDR)

Presenter: ZENKER, Klaus (Helmholtz-Zentrum Dresden-Rossendorf)

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