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LLRF control upgrade at BESSY-II with mTCA.4 platforms

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The synchrotron light source BESSY-II has been in operation for almost 25 years and modernization measures are needed to maintain competitiveness until its successor BESSY-III comes online. One measure is to replace the old analogue LLRF control units with new, state of the art mTCA.4-based digital ones. The so-called “single cavity”firmware developed by DESY is being used together with the ChimeraTK adapter to connect the mTCA to the EPICS control system. A pair of SIS8300KU and a DWC8VM is used, while the tuner is driven by a PhyMotion chassis connected to the EPICS system. We discuss the implementation of the system.

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Footnotes

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Yes

Primary author: ECHEVARRIA, Pablo (Helmholtz-Zentrum Berlin für Materialien und Energie GmbH)

Co-authors: SAYALERO, Alex (Helmholtz-Zentrum Berlin fuer Materialien und Energie GmbH (HZB)); USHAKOV, Andriy (Helmholtz-Zentrum Berlin für Materialien und Energie GmbH); NEUMANN, Axel (Helmholtz-Zentrum Berlin für Materialien und Energie GmbH); KUNER, Bernhard (Berliner Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung m.b.H.); KNOBLOCH, Jens (University of Siegen); LOEWNER, Tobias (Helmholtz-Zentrum Berlin)

Presenter: USHAKOV, Andriy (Helmholtz-Zentrum Berlin für Materialien und Energie GmbH)

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