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Operation and New Capabilities of CERN's Digital LLRF Family for Injectors

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CERN's digital Low-Level RF (LLRF) family for injectors is deployed on CERN's PS Booster (PSB), Low Energy Ion Ring (LEIR), Extra Low ENergy Antiproton (ELENA) ring and Antiproton Decelerator (AD). It implements multiple capabilities, including beam and cavity feedback loops, bunch shaping, longitudinal blowup, bunch splitting and longitudinal diagnostics.
New capabilities are now available and the LLRF family is soon going to be deployed for tests also in CERN's Proton Synchrotron (PS). This paper provides details on the operation and on the new capabilities of this LLRF family. Hints on future evolution are also given.

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Footnotes

I have read and accept the Privacy Policy Statement

Yes

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