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First operational results of new real-time magnetic measurement systems for accelerator control

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A new real-time measurement system for accelerator control, named FIRESTORM (Field In Real-time Streaming from Online Reference Magnets), to measure the integrated bending field has been recently deployed and commissioned in six synchrotron rings at CERN. We present the operational experience during the preparation phase and the restart of the accelerator complex for Run 3, focusing on the metrological performance of the new sensors and electronics, and on the lessons learned during commissioning. We also discuss the prospects for the evolution of the system and its adaptation to related use cases.

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Footnotes

I have read and accept the Privacy Policy Statement

Yes

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