



Contribution ID: 128 Contribution code: TUP20

Type: **Poster Presentation**

Developing a new beam position monitor electronics for HIPA, The PSI High Intensity Proton Accelerator

Tuesday, 10 September 2024 16:00 (1h 30m)

The High Intensity Proton Accelerator (HIPA) at PSI presently has an RF beam position monitor (BPM) system based on 20 year old Xilinx Virtex-2 Pro Systems-on-Chip (SoC), using application-specific integrated circuits (ASICs) for direct digital downconverters. For the planned upgrade of the electronics as well as for new HIPA projects, we started the development of a new HIPA BPM electronics, using a generic electronics platform called “DBPM3” that is already being used for SwissFEL and SLS 2.0 electron BPM systems. In this contribution, first test results of a DBPM3-based HIPA BPM electronics prototype are presented, including a comparison with the present electronics.

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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Session Classification: TUP: Tuesday Poster Session

Track Classification: MC3: Beam Position Monitors