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Commissioning of the new BPM electronics in the ESRF Booster

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This system was installed & commissioned in February. The 75 Spark units are inside the Tunnel, at about 3m RF cable length from their BPM heads, improving thereby sensitivity and resolution and also reducing much RF cable costs. The results will be presented, notably on the now extended functionalities with the processing of the T-b-T position data and the Sum data that reveals interesting features & characteristics of the accelerated beam. Also the pros & cons of the compact Spark with Power-over-Ethernet system and In-Tunnel installation with respect to more classical signal acquisition systems will be discussed.

Primary author: Mr CARGNELUTTI, Manuel (Instrumentation Technologies)

Presenter: Mr CARGNELUTTI, Manuel (Instrumentation Technologies)