

## Diagnostics

*Monday, 25 January 2016 19:00 (25 minutes)*

<B>20' + 5' </B>

<P> After summarizing the post-LS1 beam instrumentation performance, the presentation will focus on the key challenges for beam diagnostic systems in 2016. This will first concentrate on instruments that are essential for beam commissioning and operation, such as the BPM and tune systems for high sensitivity orbit and tune measurements. An overview will then be given of the status and expectations for all the other beam diagnostics, with particular emphasis on instrumentation designed to monitor beam instabilities (Multi-band Instability Monitor), beam-beam effects (Beam Transfer Function measurements), fast losses (diamond detectors) and transverse emittance (Wire Scanners, Synchrotron Light Monitors, BGI, BGV). Where relevant, the discussion will address the bunch-per-bunch capability of these devices and their expected performance. </P>

**Presenter:** RONCAROLO, Federico

**Session Classification:** Session 2: Key Challenges for Operation

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