



Contribution ID: 1471 Contribution code: THPL078

Type: **Poster Presentation**

Towards Elettra 2.0: Beam diagnostics overview

Thursday, 11 May 2023 16:30 (2 hours)

Diffraction Limited Storage Rings, the 4th generation machines, provide transversely coherent beams with uniform phase, maintaining high photons flux and stability. Diagnostic systems play an essential role for both commissioning and operating tasks of Elettra 2.0. The small beam dimensions make measurements of both position and size challenging. Elettra 2.0 diagnostics will rely mainly on Beam Position Monitors and Synchrotron Radiation Profile Measurements. In this paper, an overview of all the beam diagnostics that will equip the new storage ring will be given, along with the diagnostic systems involved in the main machine control.

Funding Agency

Footnotes

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Yes

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Session Classification: Thursday Poster Session

Track Classification: MC6: Beam Instrumentation, Controls, Feedback and Operational Aspects: MC6.T03: Beam Diagnostics and Instrumentation