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A non-destructive vertical Halo-monitor on the ESRF electron beam

Wednesday 8 June 2022 14:00 (30 minutes)

A vertical Halo-monitor was installed in this May shutdown, and is now in permanent operation and yielding very satisfying results that will be shown in details, and in relation with studies on the electron beam and the accelerator components like variation of current, filling-patterns, vertical emittance, settings of the undulator gaps, collimators, scrapers etc. and in direct correlation with measurements of our 128 beamloss detectors and beam lifetime.

The principle and the components of this non-destructive diagnostic will also be explained. It uses the available X-rays in an non-used Front-End.

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