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Advances on magnetic measurements by stretched wires at the ESRF

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The European Synchrotron Radiation Facility (ESRF) has started a major upgrade: the present storage ring will be dismantled in 2019 and will be replaced by a new one. More than 1000 magnets, with apertures ranging from 25 mm up to 37 mm, will be installed. Most of these magnets will be measured with Single Stretched Wire (SSW) benches developed in house.

The basis of SSW alignment and some aspects of advanced measurements will be presented. Then, the error budget for SSW alignment and fiducialization will be discussed. The accuracy of the alignment and measurements depends on the calibration of the wire actuators: a specific calibration bench has been developed for this purpose. Finally, measurement results obtained on individual magnets and on magnet girders will be shown.

Summary

Author: Dr LE BEC, Gael (ESRF)

Presenter: Dr LE BEC, Gael (ESRF)

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