

## Alignment strategy for the new ESRF storage ring

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Following on from 20 years of success and scientific excellence, the ESRF, the world's first third-generation light source, has embarked upon an ambitious and innovative modernisation project –the Upgrade Programme. After the successful delivery of the first phase of this programme in the period 2009-2015, the ESRF launched, in May 2015, the ESRF –Extremely Brilliant Source (ESRF –EBS) project.

ESRF-EBS represents an investment of 150 M€ over the period 2015-2022. The principal aim of this project is to construct and commission the new 844m circumference ESRF-EBS storage ring. About 90% of the existing infrastructure will be re-used, and the new ESRF-EBS design has been conceived with greatly improved energy efficiency, reducing electricity costs by 20%. With performances multiplied by 100 in terms of brilliance and coherence, this new source of synchrotron radiation will offer unprecedented tools for the exploration of matter and for the understanding of life at the macromolecular level.

This presentation will discuss the alignment strategy for the ESRF-EBS project.

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**Session Classification:** Large scale metrology in accelerators