



Contribution ID: 39

Type: **Oral**

Alignment for the ESRF Extremely Brilliant Source

The Extremely Brilliant Source (EBS) Project successfully greatly improved the brightness of the ESRF X-ray source by replacing the existing machine with a new machine with a much more compact lattice. This paper will discuss alignment related aspects of the assembly, installation and commissioning of the new ESRF EBS machine. It will concentrate on techniques used, results achieved and the resources that were required to accomplish the task. We will cover fiducialisation of the magnets to their final installation in the ESRF storage ring tunnel. We will focus particular attention on the calculation of alignment uncertainty following general rules laid out in the Guide to the Uncertainty in Measurement (GUM).

Author: Dr MARTIN, David (ESRF)

Presenter: Dr MARTIN, David (ESRF)

Session Classification: Session 7 - Surveying and Alignment II

Track Classification: Survey & Alignment