



Contribution ID: 60

Type: **not specified**

Magnetic measurement techniques and systems at the Paul Scherrer Institut

Monday 13 June 2016 17:10 (20 minutes)

The talk will be mainly focused on the magnetic measurement techniques and systems used at the Paul Scherrer Institut (PSI) to characterize the field quality and qualify the magnetic elements (magnets and undulators) needed in the large scale facilities. In the frame work of the Swiss Free Electron laser (SwissFEL), the next facility in construction at PSI, the techniques for magnetic measurements have been enhanced and the instrumentation has grown significantly with the use of small diameter rotating coils, single axis multi-probes and three axis Hall sensors, and a moving-vibrating wire. The presentation will be composed of an overview of the measurement techniques followed by a description of the systems. Their potentialities are illustrated by some results obtained during the magnetic measurement campaigns of the SwissFEL magnetic elements.

Summary

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Session Classification: Characterization of individual components