



Contribution ID: 49

Type: **not specified**

Radiation damage around ESRF X-ray pinholes

Monday 19 June 2023 16:00 (30 minutes)

After two years of nominal ESRF-EBS operation heavy radiation damage could be observed around the in-air X-ray pinhole setups of the storage ring.

The main origin of this rapid degradation was identified to be (X-ray fluorescence) radiation emitted from the copper attenuator placed in front of the pinhole.

A newly designed attenuator version installed since January 2023 will hopefully improve the situation.

Further, some white powder deposit in the vicinity of the pinholes reveals to be SiO₂. However, the origin of this SiO₂ powder which is known to sometimes block the pinholes remains mysterious.

Summary

Primary author: EWALD, Friederike (ESRF)

Presenter: EWALD, Friederike (ESRF)

Session Classification: Session 2