



Contribution ID: 1497 Contribution code: THPA148

Type: **Poster Presentation**

## SLS 2.0 crotch absorbers design

*Thursday, 11 May 2023 16:30 (2 hours)*

The installation of the new Swiss Light Source - SLS2.0 will start in October 2023. All beamlines will profit from the increased photon beam brightness. Given the geometrical constraints of the new storage ring, high synchrotron radiation power densities must be dissipated on the crotch absorbers. For the bending magnets, as well as the insertion devices, absorbers have been adapted to maximize their efficiency and protect downstream components. A design in Glidcop, fitting a CF63 flange, has been developed to fulfill the space, vacuum and thermal requirements. This paper will describe the design, manufacturing and testing of first crotch absorbers of SLS 2.0.

### Funding Agency

### Footnotes

### I have read and accept the Privacy Policy Statement

Yes

**Primary author:** ROSENBERG, Colette (Paul Scherrer Institut)

**Co-authors:** BUCHMANN, Jonas (Paul Scherrer Institut); DREYER, Karsten (Paul Scherrer Institut); GAIFFI, Nazareno (Paul Scherrer Institut); GANTER, Romain (Paul Scherrer Institut); GROSSENBACHER, Björn (Paul Scherrer Institut); HÖWLER, Tino (Paul Scherrer Institut); KIRCHGEORG, Natalia (Paul Scherrer Institut); SCHULZ, Lothar (Paul Scherrer Institut); STEPHAN, David (Paul Scherrer Institut); WANG, Xinyu (Paul Scherrer Institut); WEBER, André (Paul Scherrer Institut)

**Presenters:** ROSENBERG, Colette (Paul Scherrer Institut); KIRCHGEORG, Natalia (Paul Scherrer Institut)

**Session Classification:** Thursday Poster Session

**Track Classification:** MC7: Accelerator Technology and Sustainability: MC7.T14: Vacuum Technology