



Contribution ID: 69

Type: **Oral presentation**

## Photon diagnostic developments at the Athos and Aramis beamlines of SwissFEL

*Monday 26 October 2020 10:00 (20 minutes)*

With the first lasing of Athos (the soft X-ray branch of SwissFEL) in December 2019, SwissFEL is now operating two FELs in parallel. Whereas at the hard X-ray branch (Aramis) we are now mainly focusing on further developing the experimental infrastructure as well as setting up and performing user experiments, at Athos a constant progress of the beamline commissioning and the construction of endstations takes place.

In this talk, we will present the developments of X-ray photon diagnostic tools. We will highlight the facility achievements with specific focus given to spectral and temporal diagnostics of the ultrashort x-ray pulse that are required on the one hand to optimize the accelerator, on the other to provide optimum conditions for the user experiments scheduled at the beamlines. Finally, we will discuss our plans for future developments of these tools for both, Athos and Aramis.

**Primary authors:** AL HADDAD, Andre (PSI - Paul Scherrer Institut); DAVID, Christian (Paul Scherrer Institut); ERNY, Christian; BOSTEDT, Christoph; ARRELL, Christopher; MILNE, Christopher (Paul Scherrer Institut); CIRELLI, Claudio; Dr SVETINA, Cristian (Paul Scherrer Institut); PRAT COSTA, Eduard (Paul Scherrer Institut); RAZZOLI, Elia (Paul Scherrer Institute); FERRARI, Eugenio; KNOPP, Gregor (Paul Scherrer Institut); LEMKE, Henrik Till; USOV, Ivan; REHANEK, Jens Konstantin (Paul-Scherrer-Institute); Mr KNURR, Jonas; SCHNORR, Kirsten Andrea; PATTHEY, Luc (Paul Scherrer Institut); SANDER, Mathias (PSI - Paul Scherrer Institut); BEAUD, Paul (Paul Scherrer Institut); JURANIC, Pavle (Paul Scherrer Institut); JOHNSON, Philip; ISCHEBECK, Rasmus (Paul Scherrer Institut); FOLLATH, Rolf; MANKOWSKY, Roman; Dr ZERDANE, Serhane; BETTONI, Simona (Paul Scherrer Institut); AUGUSTIN, Sven (PSI - Paul Scherrer Institut); REICHE, Sven (Paul Scherrer Institut); WAGNER, Ulrich Hilmar (Paul Scherrer Institut); BLACHUCKI, Wojciech (Institute of Nuclear Physics, Polish Academy of Sciences); ARBELO PENA, Yunieski; DENG, Yunpei (PSI); SUN, Zhibin (PSI - Paul Scherrer Institut)

**Presenter:** ARRELL, Christopher

**Session Classification:** Facility Overview 1

**Track Classification:** Facilities Overview