

# Topical Workshop on Beam Loss Monitors



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## **BLMs - Indispensable Tools for Accelerator Operation and Optimization**

*Thursday, 15 September 2016 14:00 (30 minutes)*

**Presenter:** WELSCH, Carsten (Cockcroft Institute / University of Liverpool)

Contribution ID: 2

Type: **not specified**

## **Beamloss detector development at the ESRF**

*Thursday, 15 September 2016 14:30 (30 minutes)*

**Presenter:** EWALD, Friederike (ESRF)

Contribution ID: 3

Type: **not specified**

## **Fibre BLM studies in the Australian synchrotron**

*Thursday, 15 September 2016 15:00 (30 minutes)*

**Presenter:** KASTRIOTOU, Maria (University of Liverpool (GB))

Contribution ID: 4

Type: **not specified**

## Diamond Beam Loss Monitors

*Thursday, 15 September 2016 16:00 (30 minutes)*

**Presenters:** GRIESMAYER, Erich (Vienna University of Technology (AT)); BARTOSIK, Marcin Ryszard (Eidgenoessische Tech. Hochschule Zuerich (CH))

Contribution ID: 5

Type: **not specified**

## **In vacuum Diamond Sensor Scanners for Beam Halo Measurements at ATF2**

*Thursday, 15 September 2016 16:30 (30 minutes)*

**Presenter:** LIU, Shan (DESY)

Contribution ID: 6

Type: **not specified**

## **Collaborative work and funding opportunities**

*Thursday, 15 September 2016 17:00 (30 minutes)*

**Presenter:** WELSCH, Carsten (Cockcroft Institute / University of Liverpool)

Contribution ID: 7

Type: **not specified**

## **SwissFEL Beam Loss Monitors (TBC)**



Contribution ID: 8

Type: **not specified**

## **Beam loss monitoring and experimental application at SPEAR3**

*Friday, 16 September 2016 09:00 (30 minutes)*

**Presenters:** Dr CORBETT, Jeff (SLAC); TIAN, Kai (SLAC)

Contribution ID: 9

Type: **not specified**

## **Simulation of the European XFEL collimation and undulator section using GEANT4/BDSIM**

*Friday, 16 September 2016 09:30 (30 minutes)*

**Presenter:** LIU, Shan (DESY)

Contribution ID: 10

Type: **not specified**

## BLM in the context of machine protection

*Friday, 16 September 2016 10:00 (30 minutes)*

Any particle accelerator with damage potential in its beams or its machine components requires a potent machine protection system. High power particle beams, or beams with a high power density, can directly damage accelerator structures, whilst beam induced heating of superconducting structures can trigger a phase transition to the normal conducting state (quench). A good beam loss monitoring (BLM) system is therefore one of the key elements for machine protection. Such a system can either directly trigger a fast beam abort or inhibit subsequent beam pulses, depending on criticality and machine type. This talk discusses the role of a BLM system in machine protection, including aspects related to beam transfer and collimation with the real life experience of LHC BLM operation serving as illustrative examples. Dependability and design criteria are also reviewed.

**Presenter:** HOLZER, Eva Barbara (CERN)

Contribution ID: 11

Type: **not specified**

## **A New BLM Concept Based on Fast Neutron Detection and Very Low Photon Sensitivity**

*Friday, 16 September 2016 11:00 (30 minutes)*

**Presenter:** MARRONCLE, Jaques (CEA)

Contribution ID: 12

Type: **not specified**

## **The New Beam Loss Monitoring System for CERN's LHC Injector Complex**

*Friday, 16 September 2016 11:30 (30 minutes)*

**Presenter:** ZAMANTZAS, Christos (CERN)

Contribution ID: 13

Type: **not specified**

## **Use of a diamond BLM system in the LHC ring**

*Friday, 16 September 2016 12:00 (30 minutes)*

**Presenter:** XU, Chen (CERN)

Contribution ID: 14

Type: **not specified**

## **Latest irradiation test results for diamond & silicon loss detectors**

*Friday, 16 September 2016 14:00 (30 minutes)*

**Presenter:** BARTOSIK, Marcin Ryszard (Eidgenoessische Tech. Hochschule Zuerich (CH))

Contribution ID: 15

Type: **not specified**

## The CMS Beam Condition Monitoring Leakage system at the LHC

*Friday, 16 September 2016 14:30 (30 minutes)*

**Presenter:** KASSEL, Florian Robert (KIT - Karlsruhe Institute of Technology (DE))



Contribution ID: 16

Type: **not specified**

## Summary and Conclusion

*Friday, 16 September 2016 15:30 (30 minutes)*

**Presenter:** TORRES, Ricardo (University of Liverpool)