

Session Program

23-24 Apr 2018

**Radiation effects at the LHC experiments and
impact on operation and performance**

***Radiation Background Simulation and
Monitoring***

CERN, 6/2-024 - BE Auditorium Meyrin

Tuesday 24 April

09:00

Radiation Background Simulation and Monitoring

Session | **Location:** CERN, 6/2-024 - BE Auditorium Meyrin

09:00–09:10 Introduction

Speakers

Sophie Mallows, Ian Dawson, Agnieszka Mucha

09:10–09:35 ATLAS simulation overview

Speaker

Paul Miyagawa

09:35–10:00 CMS simulation overview

Speaker

Sophie Mallows

10:00–10:25 LHCb simulation overview

Speaker

Tomasz Szumlak

10:25–10:55 Coffee break

10:55–11:15 ATLAS radiation background studies using GEANT4 & GRID

Speaker

Sven Menke

11:15–11:30 CMS benchmarking of the radiation fields

Speaker

Igor Azhgirey

11:30–11:45 LHCb benchmarking of the radiation fields

Speaker

Matthias Karacson

11:45–12:00 Inner detector radiation field measurements with RadMons

Speaker

Igor Mandic

12:00–12:15

Measurement of composition of radiation fields in the ATLAS experiment with MPX/TPX

Speaker

Stanislav Pospisil

12:15–12:30 Discussion on simulation uncertainties and safety factors

Speaker

Ian Dawson

12:30