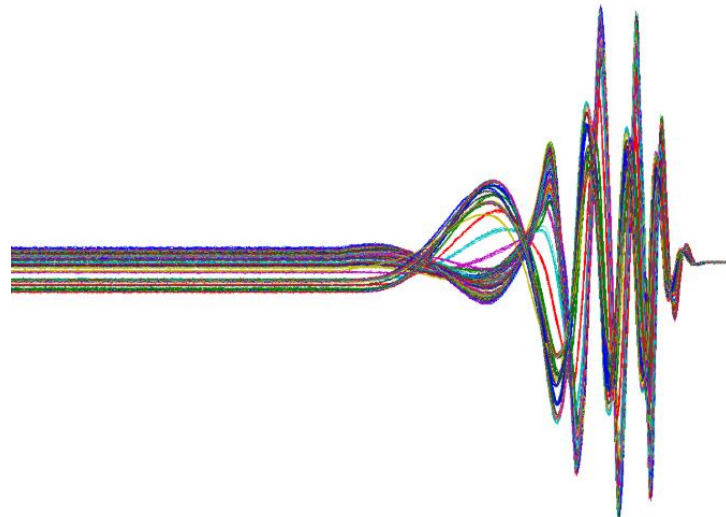




“Next Generation Beam Position Acquisition and Feedback Systems”

CLOSING REMARKS–SUMMARY



12–14 November 2018

Exe Campus Hotel – Cerdanyola del Vallès – Barcelona (Spain)

Next Generation Beam Position Acquisition and Feedback Systems

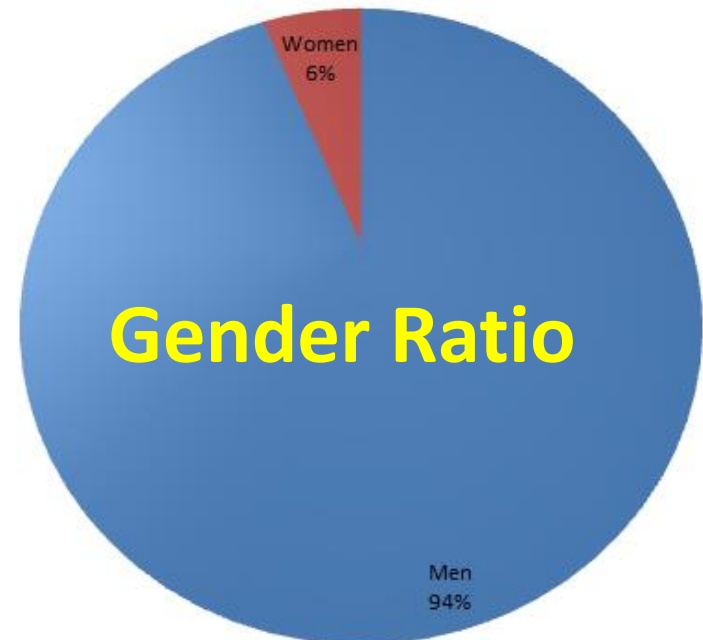
TOTAL OF 83 PARTICIPANTS

Mainly from Europe, but also significant participation from America, Asia and Australia

Hadron Synchrotrons → 28

Electron Synchrotrons → 50

Companies → 5



Next Generation Beam Position Acquisition and Feedback Systems

Day 1: Focused on Hadron Machines

- BPM Analog Electronics
- BPM Digital Electronics
- Data processing and Transmission techniques
- Hadron Bunch by Bunch Systems

Day 2: Focused on Orbit feedback systems

- Orbit feedback for Hadron Synchrotrons
- Orbit feedback for Electron Synchrotrons
- Feedback systems for new machines

Day 3: Focused on Feedback Systems for Electron Synchrotrons

- Transversal BbB feedback systems
- Longitudinal BbB feedback systems
- Orbit feedback tools

Next Generation Beam Position Acquisition and Feedback Systems

TOTAL OF 34 CONTRIBUTIONS IN 3 DAYS ... Maybe too much?

Talks about Hadron Synchrotrons → 12

Talks about Electron Synchrotrons → 20

Talks given by companies → 2



e- WINS !!!

**Synchrotron light
sources**

LHC

Size

m

km

**Talking
capabilities**

hours

minutes

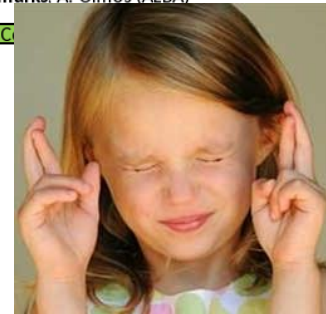
Next Generation Beam Position Acquisition and Feedback Systems

<https://indico.cern.ch/event/743699/overview>

Monday Nov. 12th		Tuesday Nov. 13th		Wednesday Nov. 14th	
Session 1 - HADRON BPM ANALOG ELECTRONICS		Session 3 - ORBIT FEEDBACK SYSTEMS FOR HADRON AND ELECTRON SYNCHROTRONS - PART 1		Session 5 - INSTABILITIES FEEDBACK SYSTEMS FOR ELECTRON SYNCHROTRONS	
8:30	Registration				
8:55	Workshop Welcome, A. Olmos (ALBA)				
9:00	Analogue electronics for BPMs at GSI - Performance and limitations, W. Krämer (GSI)	Overview from light source - demands, achievements, and future challenges, M. Böge (PSI)		Coupled-bunch instabilities and the Anna Karenina principle, D. Teytelman (Dimtel)	
9:30	Diode Orbit electronics & performance, M. Gasior (CERN)	LIBERA BPM and Closed Orbit feedback (Instrumentation Tech), M. A. Bardorfer		Longitudinal feedback systems at the lepton collider DAFNE, A. Drago (INFN)	
10:00	The SNS Ring BPM system - old and new, R. Dickson (SNS)	Fast Orbit Feedback - soft or hard, M. Tan (Australian)		Fast kickers for multi-bunch feedbacks, M. Dehler (PSI)	
10:30	Coffee break			Coffee break	
11:00	Time multiplexing of BPM signals to avoid channel to channel crosstalk, M. Wendt (CERN)	New BPM systems for hadron synchrotrons, M. Böge (PSI)		Experience on the integration of Diamond MBF-2 @ ESRF, B. Roche (ESRF)	
11:30	BPM systems at BNL, R. Michnoff (BNL)			Experience on the integration of Diamond MBF-2 @ ESRF, B. Roche (ESRF)	
12:00	Performance of the new Logarithmic BPM system at CERN SPS, T. Böger (CERN)			New SPring-8 Bunch-by-Bunch Feedback Processor for hybrid filling, T. Nakamura (Spring-8)	
12:30	The design & progress of bunch by bunch measurement, M. Li (IMP)			Single bunch instabilities with transverse feedback at Diamond Light Source, E. Koukouvini-Platia (CERN)	
13:00				LUNCH	
Session 2 - HADRON BPM DIGITAL ELECTRONICS		Session 4 - ORBIT FEEDBACK SYSTEMS FOR HADRON AND ELECTRON SYNCHROTRONS - PART 2		Session 6 - ORBIT FEEDBACK TOOLS FOR ELECTRON SYNCHROTRONS	
14:30	Data transmission & digitisation - what is possible, J. Barros Marques (CERN)	Orbit feedback systems for hadron synchrotrons, J. Wenninger (CERN)		Suppression of the injection perturbations using feed-forward techniques, E. Plouviez (ESRF)	
15:00	Digital electronics & DAQ for FAIR, algorithms and achievable resolution, A. Reiter (GSI)	Orbit feedback systems for a fast orbit feedback at hadron synchrotrons, S. Mirza (GSI)		New corrector power supplies for SLS / SLS-2.0, H. Jäckle (PSI)	
15:30	A next generation digital BPM system for the LHC, A. Barabga (CERN)	BPM Data Acquisition and Orbit Feedback at BNL, A. Marusic (BNL)		Closing remarks, A. Olmos (ALBA)	
16:00	Coffee break			Coffee break	
16:30	Digital BPM development for HEPS project, S. Wei (IHEP)	The NSLS-II BPM system, D. Padrazo (BNL)			
17:00	Bunch-by-Bunch position measurement for the CERN-PS: coping with RF-gymnastics, J. Belleman (CERN)	BPM and Orbit Feedback System for ALS Upgrade, G. Portmann (ALS)			
17:30	BPM electronics and orbit feedback system at Sirius, D. Tavares (LNLS)				
18:00					
		20:00 - Bus from Hotel to restaurant			
		20:30 - Workshop Dinner			

IT MORE OR LESS WORKED FINE !!!!

Remote talks



Next ARIES workshop



Joint ARIES-ADA Workshop on 'Scintillation Screens and Optical Technology for transverse Profile Measurements'

1-3 April 2019
Europe/Zurich timezone

Search...



Overview

Registration

Timetable

Contribution List

My Conference

↳ My Contributions

Participant List

Venue and accommodation

Travel

Visit of Solaris

Support

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☎ +49 6159 71 1746

Scintillation Screens and Optical Technology for transverse Profile Measurements

ARIES-ADA Topical Workshop, Krakow, Poland, April 1 to 3, 2019

We are pleased to announce the Joint ARIES Workshop on diagnostics at Electron and Hadron accelerators, which will be held in Krakow, Poland from April 1 to 3, 2019.

It is part of "Advanced Diagnostics for Accelerators" (ADA) within the EU funded ARIES programme (Accelerator Research and Innovation for European Science and Society). Part of the workshop cost are covered by this programme. The workshop is a common project between all Work Packages of the ADA-ARIES EU funded programme and its organization is chaired by GSI.

The workshop venue will be at the [Hotel Best Western Krakow Old Town](#) which is located at the old city of Krakow.

Workshop Topic: Scintillation screens are widely used at all kind of accelerators for transverse profile measurements as they delivers at direct image of the 2-dim beam distribution. However, the choice of an appropriate scintillation material depends on the beam parameters to guarantee sufficient sensitivity, spatial resolution and dynamic range. The physical basis of the scintillation process will be discussed to enable the understanding of possible limitation like saturation effects or resolution limits. The experiences and applicability obtained at various accelerator facilities will be described. Moreover, the optical solutions and camera technology in terms of sensitivity and radiation hardness are an important part of such beam instrumentation. A comparable precursor workshop took place at GSI in year 2011, see <https://www-bd.gsi.de/ssabd/>

Workshop fee: 100 € to be paid in advance not later than March 15, 2019.

Thank to the sponsoring by ARIES-ADA the workshop fee includes:

- Workshop participation
- Hotel room at Best Western Krakow Old Town for maximal three nights during the workshop
- Welcome reception (March 31) breakfast (April 1 to 3), coffee breaks, business lunch (April 1 and 2) and dinner (April 1 and 2).

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MANY THANKS TO THE SPEAKERS FOR THEIR KIND CONTRIBUTIONS

THANKS TO ALL OF YOU FOR YOUR ATTENDANCE!!!

