



IMMW21

International Magnetic Measurement Workshop
24th – 28th June 2019

PROGRAMME

Sunday, 23rd June 2019

Hotel Mercure Président, Grenoble

15:00 – 18:00	Exhibitor set-up
18:30	Registration & Welcome Cocktail

Monday 24th June 2019

Session Chair am – Joe DiMarco, Fermilab
Session Chair pm – Stephane Sanfilippo, PSI

08:30	Registration & Welcome coffee
09:00	Welcome – Joel Chavanne Introduction – ESRF
Overview of Activities	
09:30	Overview of the Magnetic Measurement activities at Sirius L. and J. Citadini, Brazilian Synchrotron Light National Lab – LNLS
10:00	Status of magnetic measurements for the Advanced Photon Source Upgrade A. Jain et al., Argonne National Laboratory
10:30	Coffee Break
Overview of Activities	
11:00	Recent activities at NSLS-II Insertion Device Magnetic Measurement Facility T. Tanabe et al., Brookhaven National Laboratory
11:30	High precision magnetic measurements at very high magnetic fields up to 37 T K. Paillot and S. Krämer, CNRS Grenoble
12:00	Magnet section activities at the Paul Scherrer Institute: Horizon 2020 and beyond S. Sanfilippo, Paul Scherrer Institute
12:30	Lunch
Sensors	
13:30	High-accuracy Hall-based sensors for high magnetic field applications V. Mosser¹, R. Boucher² and E Minaya³, 1: Itron, 2: Caylar, 3: CNRS Orsay
14:00	Latest developments at SENIS D. Popovic Renella and R. S. Popovic, Senis AG
14:30	Latest developments at Metrolab J. Tinembart Metrolab
15:00	Coffee Break
Sensors	
15:30	Method for high-speed/resolution harmonics measurements with a multi-vertex rotating coil probe array J. DiMarco, Fermi National Accelerator Laboratory
16:00	Optimal positioning of single sensors to measure integrated dipole field M. Buzio, CERN

Tuesday 25th June 2019

Session Chair am – Josep Campmany, ALBA-CELLS

Session Chair pm – Gaël Le Bec, ESRF

Overview of Activities	
08:30	Magnetic measurement activities at Pohang Accelerator Laboratory Jang Hui Han, Pohang Accelerator Laboratory
09:00	Magnetic measurement activities at CERN M. Buzio, CERN
09:30	Overview of Magnetic Field Measurement in NSRRC C.-S. Hwang <i>et al.</i>, NSRRC
10:00	Magnetic Measurements for the ALS-U E. Wallen <i>et al.</i>, Lawrence Berkeley National Laboratory
10:30	Coffee Break
Overview of Activities / Measurement reports	
11:00	Magnets for the up-grade of the Storage ring at PSI M. Negrazus <i>et al.</i>, Paul Scherrer Institute
11:30	Measurement and fiducialization of the ESRF-EBS magnets G. Le Bec <i>et al.</i>, ESRF – The European Synchrotron
12:00	Magnetic field measurements of superconducting dipole magnets for the SIS100 Synchrotron F. Kaether <i>et al.</i>, Gesellschaft fuer Schwerionenforschung – GSI
12:30	Lunch
Instruments	
14:00	Performance assessment of a new on-the-fly Cartesian field mapper for longitudinal gradient magnets P. La Marca <i>et al.</i>, Paul Scherrer Institute
14:30	Magnetic measurements systems for the Super-FRS magnets P. Kosek <i>et al.</i>, Gesellschaft fuer Schwerionenforschung – GSI
15:00	Optimization of a Three-Axes Teslameter for the Calibration of the Athos Undulators at PSI J. Cassar, University of Malta
15:30	Coffee Break
Instruments	
16:00	First results of the MAX IV pulse wire measurement system for ID characterization P. N'gotta <i>et al.</i>, Lund University
16:30	A stretched wire system for the measurement of accelerator multipole magnets C. Y. Kuo <i>et al.</i>, NSRRC

Wednesday 26th June 2019

Session Chair am – Animesh Jain, ANL

Session Chair pm – Ching-Shiang Hwang, NSRRC

Instruments	
08:30	A Novel Magnetic Measurement System Being Developed for the Superconducting Undulator Program at the Advanced Photon Source M. Kasa and Y. Ivanyushenkov, Argonne National Laboratory
09:00	In-vacuum cold measurement bench development for the CPMU upgrade programme at Diamond Light Source Z. Patel, Diamond Light Source
09:30	General status of ID magnetic measurements laboratory at ALBA J. Marcos, V. Massana, J. Campmany
10:00	High-Precision Magnetic Field Measurement and Mapping of the LEReC 180° Bending Magnet Using Very Low Field NMR Probe (<400 Gauss) H. Song et al., BNL
10:30	Coffee Break
Measurement methods	
11:00	Measurement report on the prototype ZEPTO dipole magnet for CLIC A. R. Bainbridge et al., STFC Daresbury Laboratory
11:30	A novel method for the field integral measurements with a stretched wire J. Chavanne et al., ESRF – The European Synchrotron
12:00	SW impedance and SW tomography: R&D topics at the ESRF G. Le Bec et al., ESRF – The European Synchrotron
12:30	Lunch
Measurement Reports	
14:10	PAL-XFEL hard X-ray planar undulator off-axis field measurements Sojeong Lee and Jang-hui Han, Pohang Accelerator Laboratory
14:30	Magnetic measurement of ESS quadrupole and corrector electro-magnets at Elettra D. Caiazza et al., Elettra Sincrotrone Trieste
15:00	Measurement of dipoles with longitudinal gradient at the ESRF-EBS J. Chavanne, ESRF
15:30	Coffee Break
Measurement Reports	
16:00	Vertical Magnetic Field Measurements of Full-Length Prototype MQXFAP Quadrupoles at Cryogenic Temperatures for Hi-Lumi LHC H. Song et al., BNL
16:30	Magnetic Characterization of 1.5 m Long Superconducting Undulator Coils with 20 mm Period Length A. Grau et al., IBPT, KIT
17:00	The research of weak magnetic field measurement Jianxin Zhou, Institute of High Energy Physics
19:30 - 22:00	Workshop Dinner

Thursday 27th June 2019

ESRF – The European Synchrotron

Session Chair am – Marco Buzio, CERN

Overview of Activities / Measurement reports	
09:00	Magnetometry for Gravitational Measurements of Antihydrogen with ALPHA-g N. Evetts, University of British Columbia, on behalf of the ALPHA Collaboration
09:30	Overview of Magnetic Measurements of Insertion Devices at DESY P. Vagin, A. Schöps, M. Tischer, DESY
10:00	Coffee Break
10:30	Facility Tour of the ESRF
12:00	Lunch
13:30	Facility Tour of the ESRF and the LNCMI*
15:00	Coffee Break
15:30	Facility Tour of the ESRF and the LNCMI*

* The LNCMI is the *Laboratoire National des Champs Magnetiques Intenses* located in Grenoble.

Friday, 28th June 2019

Hotel Mercure Président, Grenoble

Session Chair – Ed Rial, HZB

Fiducialization and Alignment	
09:00	Magnetic Alignment of Magnets for Cornell Electron Storage Ring Upgrade A. Temnykh, Cornell University
09:30	Performance Study of Vibrating-Wire Magnet Alignment Technique K. Fukami <i>et al.</i>, RIKEN SPring-8 Center
10:00	Vibrating Wire Method And Related Positioning Study For TPS T. C. Tseng <i>et al.</i>, NSRRC
10:30	Coffee break
11:00	The Magnetic Measurement System Based on Coordinate Measuring Machine F. Chen <i>et al.</i>, Institute of High Energy Physics
Conclusions & Final Remarks	
11:30	Round table discussion To cover: (1) Overview and General activities in magnetic measurement, (2) Hall probes, rotating coils, other sensors (3) Measurement benches (4) Measurement reports (5) Alignment Conclusions and Final Remarks
12:30	Workshop close & Lunch

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