LLRF2023 PROGRAM

Time	SUNDAY 10/22	MONDAY 10/23	TUESDAY 10/24	WEDNESDAY 10/25	THURSDAY 10/26	FRIDAY 10/27
09:00		Welcome & LOC Announcements	Welcome & LOC Announcements	Welcome & LOC Announcements	Welcome & LOC Announcements	
09:10–09:50		[Opening talk] Overview of accelerators in South Korea (Changbum Kim, PAL)	[Measurement and control] Digital low level optical control for multidimensional coherent laser combining (Qiang Du, LBNL), invited	[Tutorial] Timing and synchronization (Krzysztof Czuba, WUT-ISE)	[Tutorial] Modeling control loops in beam dynamics simulations (Helga Timko, CERN)	Lab tour, RAON 9:30~14:30
			Approach to calibrate beam phase using steady-state RF forward signal under closed-loop operation (Rihua Zeng, ESS)			
09:55		CERN lab talk (Wolfgang Hofle)		[SRF controls] Initial test results of an SRF cavity field and resonance controller based on dynamic mode decomposition (Jorge Diaz Cruz, SLAC), invited	[Other] Model in the Loop Verification for Multi-Cavity LLRF Control Systems (Burak Dursun, DESY), invited	
10:05		DESY lab talk (Julien Branlard)	High-precision RF-voltage measurements using longitudinal phase-space tomography in the CERN PSB and SPS (Danilo Quartullo, CERN)			
10:20		Fermilab lab talk (Philip Varghese)	Variational autoencoders for noise reduction in industrial LLRF systems (Jonathan Edelen, RadiaSoft LLC)	RF-energy saving initiative at the European XFEL (Julien Branlard, DESY)	LANSCE Low Level RF Resonance Control Water System Upgrade (Anju Poudel, LANL)	
10:35		Coffee break - 30' 10:35~11:05	Coffee break-30' 10:35~11:05	Coffee break-30' 10:40~11:10	Coffee break - 30' 10:45~11:15	
11:05		JLAB lab talk (Tomasz Plawski)	Digital direct RF feedback for beam loading reduction at ALBA (Pol Solans, ALBA)	Experimental results using a Modified ADRC control algorithm for Microphonics Reduction in SRF cavities (Elejaga Ander, UPV/EHU)	[Special topic] Recent Progress in High Temperature Superconductor Magnet Technology (Seungyong Hahn, SNU)	
11:20		LBNL lab talk (Qiang Du)	An Intra-pulse feedforward algorithm for improving pulsed microwave stability (Jiawei Han. IASF)	Superconductor LLRF control system for CSNS-II LINAC (Zhexin Xie, IHEP/CSNS)		
11:35		SLAC lab talk (Alessandro Ratti)	LLRF upgrade status at the KEK Photon Factory 2.5 GeV ring (Daichi Naito. KEK)	LLRF algorithm for superconducting cavities in SHINE (Xuefang Huang, SARI-CAS)	Closing remarks - SPC updates	
11:50		group photo 10'				
12:00		Lunch 1h15' 12:00~13:15	Lunch 1h15' 12:05~13:20	Lunch 1h10' 12:10~13:20	Lunch 1h 12:15~13:15	
13:15		SNS lab talk (Mark Crofford)	Digital LLRF feedbacks development, implementation and test at KEK LUCX facility (Konstantin Popov, KEK)	IQ award	Excursion 1h45' Bulguksa 13:15~15:00	
13:30		SSRF lab talk (Yubin Zhao)	Implementation of the On-line RF Amplitude and Phase Calibration for Vector Sum Control (Mariusz Grecki, DESY)			
13:50		[System and operation] LLRF system for the Fermilab PIP-II superconducting LINAC (Philip Varghese, Fermilab), invited	[Timing] Performance summary of the ESS phase reference line (Krzysztof Czuba, WUT-ISE), invited	Poster session 13:50~18:00		
14:15		Design and operation of the new digital LLRF system for CAFe SC linac (Zheng Gao, IMP)	RF reference distribution and operation experiences in PAL-XFEL (Chang-Ki Min, PAL)			
14:35		Present status of J-PARC linac LLRF system (Kenta Futatsukawa, KEK)	[Tutorial] Machine learning (Annika Eichler, DESY)			
15:00		The HL-LHC LLRF project (Gregoire Hagmann, CERN)			Lab tour, PAL 3h 15:00~18:00	
15:20		Status of the LCLS-II SRF accelerator (Andy Benwell, SLAC)				
15:35		Coffee break-30' 15:35~16:05	Coffee break-30' 15:40~16:10	Coffee break 15:30~16:00		
16:05		Drift observations and mitigation in LCLS-II RF (Shreeharshini Murthy, LBNL)	Round Table 2 Machine Learning applications			
16:25		LCLS-II-HE LLRF (Jing Chen, SLAC)				
16:45		Flat gateware architecture for low level RF control (Gang Huang, LBNL)	[Hardware] Upgrade of the fast analogue intra-pulse phase feedback at SPARC_LAB (Luca Piersanti, INFN), invited			
17:20		Round Table 1 Reliability + Anomaly Detecton	Progress in LLRF system development for Korea-4GSR (Yong-Seok Lee, PAL)			
17:40			Preliminary design of scalable hardware integrated platform for LLRF application (Tao Xue, Tsinghua Univ.)			
18:00	Welcome reception 18:00~20:00		SPC meeting 18:00~20:00	Workshop dinner 18:00~21:00		