DRAFT Sept. 2, 2022

				MONDAY 10/10/2022		TUESDAY 10/11/2022		WEDNESDAY 10/12/2022		THURSDAY 10/13/2022
00:05	07:45	07:50		Late registration Lichthof						
00:05	07:50	07:55								
00:05	07:55	08:00								
00:05	08:00	08:05								
00:05	08:05	08:10								
00:05	08:10	08:15								
00:05	08:15	08:20		Welcome & LOC Announcements		LOC Announcements		LOC announcements		LOC announcements
00:05	08:20	08:25				Update on the LLRF operations status at the European XFEL Marco Diomede - DESY, Germany		Next generation RF field detection with the carrier-suppression interferometer (CSI) (invited) Uros Mavric - DESY, Germany		Status of the LCLS-II SRF Systems and LLRF Commissioning (invited) Andy Benwell - SLAC, USA
00:05	08:25	08:30	S0 - Welcome	Special Topic FCC-ee Injector design and the PSI Positron Production project (invited) Paolo Craievich - PSI, Switzerland	S3: Sys & OP 2/2		S5: HW 1/2		S6: SRF 1/2	
00:05	08:30	08:35				The CERN SPS LowLevel RF: Architecture & Implementation Gregoire Hagmann - CERN, Switzerland		Digital Low-Level RF control system for Accumulator Ring at Advanced Light Source Upgrade Project Qiang Du - LBNL, USA		ESS LLRF status and activities Anders Svensson - ESS, Sweden
00:05	08:35	08:40								
00:05	08:40	08:45				APS-Upgrade LLRF System Overview and Status Tim Berenc - ANL, USA		Status of the uTCA Digital LLRF design for SARAF Phase II Pilar Gil Jaldo - Orolia Spain S.L.U		Fermilab PIP-II Injector Test - LLRF System Design and Performance Philip Varghese - FNAL, USA
00:05	08:45	08:50								
00:05	08:50	08:55								
00:05	08:55	09:00		SLAC lab Status SLAC - Alessandro Ratti - USA						
00:05	09:00	09:05						LANSCE Digital Low Level RF Upgrade Overview Paula Van Rooy - Los Alamos National Labratory, USA		Testing of a modified Active disturbance Rejection Control (ADRC) algorithm for microphonics rejection in Superconductive Radio Frequency (SRF) cavities Ander Elejaga Estibalies - UPV/EHU, Spain
00:05	09:05	09:10		CERN lab Talk CERN - Wolfgang Höfle - Switzerland						
00:05	09:10	09:15								
00:05	09:15	09:20		KEK lab talk KEK - Toshihiro Matsumoto - Japan						
00:05	09:20	09:25	S1: Lab talks 1/1							
00:05	09:25	09:30		JLAB lab talk JLAB - Curt Hovater - USA	S4: Timing & Phase Ref 1/2	Installation, Commissioning and Performance of Phase Reference Line for LCLS-II Shreeharshini Murthy - LBNL, USA				
00:05	09:30	09:35								
00:05	09:35	09:40		DESY lab talk DESY - Julien Branlard - Germany						
00:05	09:40	09:45								
00:05	09:45	09:50		Fermilab lab talk FNAL - Philip Varghese - USA		FLASH2020 + RF Reference Generation System Upgrade Status Maciej Urbanski - Warsaw University of Technology, Poland				
00:05	09:50	09:55								
00:05	09:55	10:00		LOC Announcements						
00:05	10:00	10:05		coffee break - 30'		coffee break - 30'		coffee break - 30'		coffee break - 30'
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00:05	10:30	10:35						Very Low Noise Receiver Technology for Digital Beam Position and Phase Detection (invited) Daniel Valuch - CERN, Switzerland	S6: SRF 2/2	Operational Experience of the SELAP Algorithm for LLRF Control System at JLAB Ramakrishna Bachimanchi - JLAB, USA
00:05	10:35	10:40		Overview of activities in labs in China (invited) Zheqiao Geng - PSI, Switzerland		White Rabbit-based LLRF upgrade for CERN's SPS Tomasz Wlostowski - CERN, Switzerland				
00:05	10:40	10:45								Mitigating instabilities in SRF resonance control loops Larry Doolittle - LBNL, USA
00:05	10:45	10:50								
00:05	10:50	10:55	S1: lab talks 2/2		S4: Timing & Phase Ref 2/2		S5: HW 2/2	FPGA implementation of a multi-harmonic cavity controller for the Proton Synchrotron Booster at CERN Diego Barrientos - CERN, Switzerland		
00:05	10:55	11:00				Status of the Phase Reference Line for the European Spallation Source Krzysztof Czuba - Warsaw University of Technology, Poland				
00:05	11:00	11:05		ORNL lab talk ORNL - Mark Crofford - USA						
00:05	11:05	11:10								
00:05	11:10	11:15		LLRF Status and Activities at PSI PSI - Roger Kalt - Switzerland		discussion on phase reference and timing		Status of the LLRF system for ESS related in-kind project by PEG Wojciech Cichalewski Lodz University of Technology, Poland		Performance of multiharmonic vector voltage control feedback for the J-PARC Rapid Cycling Synchrotron (invited) Fumihiko Tamura - JPARC, Japan
00:05	11:15	11:20								
00:05	11:20	11:25		LBNL Lab talk LBNL - Carlos Serrano - USA						
00:05	11:25	11:30								
00:05	11:30	11:35						Digital cavity controller for the 20 MHz, 40 MHz and 80 MHz cavities in the CERN PS Ben Woolley - CERN, Switzerland	S7: Meas & BFC 1/2	Feedback stabilisation of longitudinal quadrupole coupled-bunch oscillations in the CERN PS Jan Paszkiewicz - CERN, Switzerland
00:05	11:35	11:40								
00:05	11:40	11:45								
00:05	11:45	11:50				Tutorial - Control Theory Roy Smith - ETH Zürich, Switzerland 1h				
00:05	11:50	11:55								
00:05	11:55	12:00	S2: ML 1/2	Tutorial - Machine Learning Andreas Adelmann - PSI 1h				Open Source HW/FW/SF Discussion Session Introductory talks (5'-10'): Javier Serrano - CERN, Switzerland Benoit Stef, PSI, Switzerland Lukasz Butkowski, DESY, Germany Moderated Discussion 1h		Optimization of RF phase and beam loading distribution among RF stations in SuperKEKB Shunto Ogasawara - KEK, Japan
00:05	12:00	12:05								
00:05	12:05	12:10								
00:05	12:10	12:15								Iterative Learning – Gone Wild Shane Koscielniak - Triumf, Canada
00:05	12:15	12:20								
00:05	12:20	12:25								
00:05	12:25	12:30								
00:05	12:30	12:35		lunch 1h15'		lunch (Apéro Riche) - 1h				lunch 1h15'
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00:05	13:25	13:30				Diversity Session Talks: Maria Elena Angoletta - CERN, Switzerland Melania Coletta - CERN, Switzerland Melina Spycher - PSI, Switzerland N.N. - FHNW, Switzerland				
00:05	13:30	13:35								
00:05	13:35	13:40								
00:05	13:40	13:45								
00:05	13:45	13:50						POSTER SESSION (vendor talks in parallel)	S7: Meas & BFC	Measurement of Cavity Detuning in Storage Ring RF Systems Dmitry Teytelman - Dimtel, USA
00:05	13:50	13:55		Machine Learning Based SRF Cavity Active Resonance Control (invited) Faya Wang - SLAC, USA						
00:05	13:55	14:00								
00:05	14:00	14:05								Longitudinal beam-based feedback system at the European XFEL Björn Lautenschlager - DESY, Germany
00:05	14:05	14:10								
00:05	14:10	14:15								
00:05	14:15	14:20								
00:05	14:20	14:25	S2 : ML 2/2	Machine Learning assisted Cavity Quench Identification at the European XFEL Julian Branlard - DESY, Germany				vendor 1 // talk 5'+5'		**Special Topic**
00:05	14:25	14:30						vendor 2 // talk 5'+5'		
00:05	14:30	14:35						vendor 3 // talk 5'+5'		
00:05	14:35	14:40		FPGA-based hardware acceleration of machine learning algorithms for particle accelerators Gianluca Martino - TUHH / DESY, Germany		1h10' program to be announced		Fresh coffee served		
00:05	14:40	14:45								
00:05	14:45	14:50						vendor 4 // talk 5'+5'		**Closing remarks - SPC updates**
00:05	14:50	14:55		Applications of Machine Learning for RF Systems Jonathan Edelen - RadiaSoft, USA				vendor 5 // talk 5'+5'		
00:05	14:55	15:00								
00:05	15:00	15:05						vendor 6 // talk 5'+5'		
00:05	15:05	15:10								
00:05	15:10	15:15								
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00:05	15:20	15:25								
00:05	15:25	15:30		coffee break - 30'				Poster Session		
00:05	15:30	15:35								
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00:05	15:50	15:55		Electron-Ion Collider RF Systems (invited) Kevin Mernick - BNL, USA						
00:05	15:55	16:00								
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00:05	16:05	16:10								
00:05	16:10	16:15								
00:05	16:15	16:20		LLRF and Timing Control System Based on MicroTCA.4 at SPring-8 Eito Iwai, Japan						
00:05	16:20	16:25								
00:05	16:25	16:30								
00:05	16:30	16:35								
00:05	16:35	16:40		Heavy-Ion Synchrotron and Storage Ring LLRF Systems at GSI and FAIR: Status and Machine Development Experiment Results Dieter Lens - GSI, Germany		PSI visit 16:00 - 19:00				
00:05	16:40	16:45								
00:05	16:45	16:50	S3:Sys & OP 1/2							
00:05	16:50	16:55		leg stretch						
00:05	16:55	17:00								
00:05	17:00	17:05		FRIB LLRF Status Update and Early Operation Experience Shen Zhao, FRIB (MSU)						
00:05	17:05	17:10								
00:05	17:10	17:15								
00:05	17:15	17:20								
00:05	17:20	17:25		Low Level RF System of the LIGHT Proton Therapy Linac Dario Soriano Guillen - AVO / ADAM				Excursion (optional)		
00:05	17:25	17:30								
00:05	17:30	17:35								
00:05	17:35	17:40								
00:05	17:40	17:45		Synchronised PS-SPS transfer with barrier buckets Mihaly Vadai - CERN, Switzerland						
00:05	17:45	17:50								
00:05	17:50	17:55								
00:05	17:55	18:00				**Workshop Dinner** **19:00 - 22:15** **Transfer to Brugg Windisch (30')**				