



FCC RF Coordination Meeting

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May 17, 2017

FCC week

<https://indico.cern.ch/event/556692/timetable/#all.detailed>

Time	Sunday	Monday (29.5)	Tuesday (30.5)	Wednesday (31.5)	Thursday (1.6)	Friday (2.6)											
08:30-09:00	Registration	WELCOME (speakers TBD)	FCC-hh machine design review Design I	Conductor Development Program 1	FCC-ee physics & experiment review Run plan and SM precision measurements	SRF Recent designs and progress	FCC-hh machine design	EuroCirCol WP5 review Electromag. Cosinetheta	FCC-hh Physics Case Basic Argumentats Review	FCC-ee machine design REVIEW	Special technologies Beam vacuum	I&O review CE. electricity, ventilation, logistics, transport	FCC-ee machine design	FCC-hh experiment review Calorimetry & trigger	Summaries Machines and Technologies	Summary FCC-hh machine design	
09:00-09:30		Physics at FCC Matthew Mc Cullough	R. Aleksan (CEA)	Convener	K. Ellis	I. Ben Zvi (BNL) or B. Rimmer (JLAB)	Convener	Convener	tdb	Convener	F. Perez (ALBA)	Ch. Prassel/K. Horstmann/G. Follett (?)/FIML	Convener	B. Heineman (DESY)	Summary FCC-ee machine design		
09:30-10:00		Opening, study status and physics perspectives	Study status & further plans- Michael Benedikt (CERN)	Coffee Break			Coffee Break			Coffee Break			Convener	Summary I&O / Technologies			
10:00-10:30		Convener	Coffee Break			Coffee Break			Coffee Break			Convener	Summary Magnets / RF				
10:30-11:00		Coffee Break		FCC-hh machine design review Design II	CDP 2	FCC-ee physics & experiment review Higgs, top and flavour	SRF Materials	FCC-hh injector/machine design	EuroCirCol WP5 review Mechanics, Cosinetheta	Common experiment software	FCC-ee machine design REVIEW	Special technologies Other directions for technology R&D	16 Tesla magnet US Magnet develop. Programme	FCC-ee EPOL	FCC-hh experiment review Physics potential of FCC-hh	Coffee Break	
11:00-11:30		Status Machines	FCC-hh conceptual machine design - CDR plan and status 25/5	A. Faus-golfe (CNRS)	Convener	A. de Roeck	V. Palmieri (INFN LNL)	Convener	Convener	German Physicist	Convener	Convener	Convener	Convener	J. Lykken	Summaries Physics and Experiments	Summary FCC-he experiments
11:30-12:00		FCC-ee conceptual machine design - CDR plan and status 25/5	HE-LHC CDR plan and status 10/5 FCC-he CDR plan and status 10/5	Lunch			Lunch			Lunch			Convener	Summary FCC-ee experiments			
12:00-12:30		Convener	Lunch			Lunch			Lunch			Convener	Closing remarks				
12:30-13:00		Lunch		Lunch			Lunch			Lunch			Free lunch break				
13:00-13:30		Lunch		Lunch			Lunch			Lunch			Free lunch break				
13:30-14:00	Status Technologies and Infrastructure	Special Technologies R&D - CDR plan and status 25/5	FCC-hh machine design review Beam performance and specifications	Conductor: Status of Nb3Sn	FCC-ee physics & experiment review Direct discovery & detectors	SRF review RF system concepts and requirements	Special technologies review FCC-hh beam handling & protection	16 Tesla Models & Technology ERM-C-RMM-Wound Conductor	FCC-hh experiment review Detector requirements & concepts	FCC-ee machine design MDI REVIEW	Special technologies Other Magnets	I&O review Cryogenics	FCC-he review interation region design	Comon detector technologies	Free lunch break		
14:00-14:30	CE, I&O CDR plan and status 25/5	G. Arduini (CERN)	Convener	L. Linssen (CERN)	D. Jamping (IHEP)	Convener	Convener	J. Incandela (UC Santa Barbara)	Convener	E. Fischer (GSI/FAIR)	D. Delikaris (CERN)	D. Brüning (CERN)	Convener	Free lunch break			
14:30-15:00	Convener	16 T Magnet R&D CDR plan and status 10/5 SRF R&D CDR plan and status 10/5	Coffee Break			Coffee Break			Coffee Break			Free lunch break					
15:00-15:30	Convener	Coffee Break			Coffee Break			Coffee Break			Free lunch break						
15:30-16:00	Coffee Break		FCC-hh machine design review Injectors	Conductor: Electromechanica I characterization	FCC-ee physics & experiment review Synergies & complementarities	SRF review Directions for R&D	Special technologies review Recent design & progress	16 Tesla magnet & circuit protection, other design options	FCC-hh experiment review Magnet & tracking	FCC-ee machine design injector Review	I&O review Operation, reliability, safety	16 Tesla magnet review Status towards the CDR	FCC-eh: Physics	HE LHC design	Free lunch break		
16:00-16:30	Status Experiments and Detectors	FCC-hh experiments and detector - CDR plan and status 40/5	Convener	Convener	J. Ellis	S. Belomestnykh (FNAL)	Convener	Convener	N. Wermes (Uni Bonn)	Convener	L. Mirales (CERN)	Convener	M. D'Onofrio	Convener	Free lunch break		
16:30-17:00	FCC-ee experiments and detector - CDR plan and status 40/5	Convener	Teatime			Teatime			Teatime			Free lunch break					
17:00-17:30	Convener	FCC-he CDR plan and status 10/5	Teatime			Teatime			Teatime			Free lunch break					
17:30-18:00	Cold refreshments		Poster Session			Gender Equality working group	FCC / EuroCirCol Collaboration Boards			Teatime			Free lunch break				
18:00-18:30	Strategy Roadmaps Plenary Session	CERN roadmap and FCC - Fabiola Gianotti (CERN)	Poster Session			Geneviève Guinot (CERN)	Lenny Rivkin			German contributions	XFEL status and activities at DESY			Free lunch break			
18:30-19:00	German activities towards future coll.		Poster Session			Lenny Rivkin			XFEL status and activities at DESY			Free lunch break					

FCC week SRF R&D program

		institute	key words/comments	title
session1	Chair: B. Rimmer	JLAB (BNL)		Recent designs and progress
15'+5'	Jiyuan Zhai	IHEP	ABSTRACT (#5)	CEPC SRF System Design and R&D
15'+5'	S. Belomestnykh	FNAL	ABSTRACT (#11)	U.S. HEP SRF research roadmap
15'+5'	S. Gorgi Zadeh	Rostock Univ	ABSTRACT (#5)	Cavity design approaches and HOM damping for FCC-ee
15'+5'	E. Palmieri	LNL		Innovative cavity fabrication techniques
15'+5'	R. Calaga	CERN	Functional requirements, WOW-CC vs HL-LHC CC	Crab cavities for FCC
session2	Chair: E. Palmieri	LNL		Materials
15'+5'	S. Posen	FNAL	ABSTRACT	State-of-the-Art SRF Cavities for FCC
15'+5'	A.-M. Valente	JLAB		ECR: from samples to cavities
15'+5'	E. Ilyina	CERN	ABSTRACT	TESTING THE POTENTIAL CAPABILITIES OF SPUTTERED Nb3SN THIN FILMS FOR RF CAVITY
15'+5'	L. Marques Antunes Ferreira	CERN		Copper electropolishing studies for the FCC-ee SC-RF cavities
10'+5'	R. Valizadeh	STFC		Surface characterization of Nb/Cu 6 GHz seamless cavities
session3 (review)	Chair: Jiyuan Zhai	IHEP		RF system concepts and requirements
15'+5'	N. Schwerg	CERN		RF scenarios and parameters layout for FCC
15'+5'	A. Butterworth	CERN		Cavity design and beam-cavity interaction challenges
15'+5'	I. Karpov	ESS		Beam Dynamics challenges for FCC-ee
15'+5'	W. Hofle	CERN		RF feedback design and performance
session4 (review)	Chair: S. Belomestnykh	FNAL		Directions for R&D
15'+5'	S. Aull	CERN	Operating SC cavities in CW	Nb/Cu perspectives for FCC
15'+5'	B. Rimmer	BNL (JLAB)	multipurpose CM, CM design, HOM damping schemes	Innovative cryomodule designs
15'+5'	E. Montesinos	CERN	limitations towards higher power capabilities. R&D plans	FPC challenges and perspectives for FCC
15'+5'	I. Syratchev	CERN	high efficiency power generation (400-800MHz), 0.1 - 1 MW)	Advances in high efficiency power generation
Posters:				
	J. Cai	CERN	High Efficiency Klystron Simulations	
	Georgy Sharkov	AO "NIITFA"	ABSTRACT (#11)	novel technique of solid-state amplifiers design
	SHA Peng	IHEP	ABSTRACT (#11)	Pre-study of CEPC SRF System
	ABAJO CLEMENTE, CAROLINA	CERN	ABSTRACT (#11)	First results of large size SRF cavity fabrication by electrohydraulic forming
	DAI, JIANPING	IHEP	ABSTRACT (#11)	Design Study of the RF System for SPPC

FCC week - proceedings

Conditions

- Contract with Proceedings of Science
- Up to 100 contributions
 - Guideline average 4 pages & references per contribution.
 - LaTeX template
- Proposal:
 - Write-up of all contributions of “reviewed sessions”
 - Possibly few additional special contributions (proposals from/to MBE, FZI, WRI)
 - Follow-up responsibility and editing by session conveners (chairs or specific program committees)
 - Deadline September 2017.

Time planning towards CDR

CDR Timeline – Publication 28/29 Nov 2018

We have to start here!

