

# **FCC week Berlin, Agenda**

**May 24th , 2017**

**W. Riegler**

# FCC Week Agenda

Time	Sunday	Monday (29.5)	Tuesday (30.5)	Wednesday (31.5)	Thursday (1.6)	Friday (2.6)	Time											
08:30-09:00	Registration and physics perspectives	WELCOME (speakers TBD)	FCC-hh machine design REVIEW	Conductor Development	FCC-ee experiments and detectors REVIEW	SRF RD	FCC-hh machine design	16 T R&D	Common experiment software REVIEW	FCC-ee machine design REVIEW	Special Technologies	Implementation, CE, Safety, Availability REVIEW	FCC-ee machine design	FCC-hh exp III calorimetry & trigger REVIEW	Summaries Machines and Technologies	Summary FCC-hh machine design	08:30-09:00	
09:00-09:30		Physics at FCC Matthew Mc Cullough	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Summary FCC-ee machine design	09:00-09:30
09:30-10:00		Study status & further plans- Michael Benedikt (CERN)	Coffee Break			Coffee Break			Coffee Break			Coffee Break			Convenor	Summary I&O / Technologies	09:30-10:00	
10:00-10:30		Coffee Break	Coffee Break			Coffee Break			Coffee Break			Coffee Break			Convenor	Summary Magnets / RF	10:00-10:30	
10:30-11:00		FCC-hh conceptual machine design - CDR plan and status 25/5	FCC-hh machine design REVIEW	Conductor Development	FCC-ee experiments and detectors REVIEW	SRF RD	FCC-hh injector/machine design	16 T R&D	FCC-hh Physics Case Basic Arguments REVIEW	FCC-ee machine design REVIEW	Special Technologies	Cryogenics	FCC-ee EPOL	FCC-hh exp IV physics performance REVIEW	Summaries Physics and Experiments	Summary FCC-ee	11:00-11:30	
11:00-11:30		FCC-ee conceptual machine design - CDR plan and status 25/5	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	German Physicist	Convenor	Convenor	F. Millet	Convenor	A. Patwa	Summary FCC-hh experiments	11:30-12:00		
11:30-12:00		HE-LHC CDR plan and status 10/5 FCC-he CDR plan and status 10/5	Lunch			Lunch			Lunch			Lunch			Convenor	Summary FCC-ee experiments	12:00-12:30	
12:00-12:30		Lunch	Lunch			Lunch			Lunch			Lunch			Convenor	Closing remarks	12:30-13:00	
12:30-13:00		Lunch	Lunch			Lunch			Lunch			Lunch			Free lunch break		13:00-13:30	
13:00-13:30		Lunch	Lunch			Lunch			Lunch			Lunch			Free lunch break		13:30-14:00	
13:30-14:00		Status Technologies and Infrastructure	Special Technologies R&D - CDR plan and status 25/5	FCC-hh machine design REVIEW	Conductor Development	FCC-ee experiments and detectors REVIEW	SRF RF REVIEW	Special Technologies REVIEW	16 T R&D	FCC-hh exp I detector requirements & concepts REVIEW	FCC-ee machine design MDI REVIEW	Other Magnets	16T R&D / conductor - REVIEW	FCC-eh: MDI/Detector Review	Common detector technologies	Free lunch break		14:00-14:30
14:00-14:30		CE, I&O CDR plan and status 25/5	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	J. Incandela	Convenor	Convenor	Convenor	Convenor	Convenor	Free lunch break		14:30-15:00
14:30-15:00		Convenor	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			Coffee Break			EuroCirCol Mid-term Review		15:00-15:30
15:00-15:30		Coffee Break	Coffee Break			Coffee Break			Coffee Break			Coffee Break			EuroCirCol Mid-term Review		15:30-16:00	
15:30-16:00	Status Experiments and Detectors	FCC-hh experiments and detector - CDR plan and status 40/5	FCC-hh injector review	Conductor Development	FCC-ee experiments and detectors	SRF RF REVIEW	Special Technologies REVIEW	16 T R&D	FCC-hh exp II magnets & tracking REVIEW	FCC-ee machine design/injector Review	Electricity, Cooling and Ventilation REVIEW	16T R&D / conductor - REVIEW	FCC-eh: Physics	HE LHC design	EuroCirCol Mid-term Review		16:00-16:30	
16:00-16:30	Status Experiments and Detectors	FCC-ee experiments and detector - CDR plan and status 40/5	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	Convenor	EuroCirCol Mid-term Review		16:30-17:00	
16:30-17:00	Convenor	CDR plan and status 10/5 FCC-he	Poster Session			Poster Session			Teatime			Teatime			EuroCirCol Mid-term Review		17:00-17:30	
17:10-17:30	Cold refreshments	Poster Session			Poster Session			Teatime			Teatime			EuroCirCol Mid-term Review		17:30-18:00		
17:30-18:00	Strategy Roadmaps Plenary Session	CERN roadmap and FCC - Fabiola Gianotti (CERN)	Poster Session			Poster Session			Teatime			Teatime			EuroCirCol Mid-term Review		18:00-18:30	
18:00-18:30	Strategy Roadmaps Plenary Session	German activities towards future coll. - Speaker from DPG or from KIT	Poster Session			Poster Session			Teatime			Teatime			EuroCirCol Mid-term Review		18:30-19:00	
18:30-19:00	Convenor J. Mnich	Global activities on future colliders - tbd	Poster Session			Poster Session			Teatime			Teatime			EuroCirCol Mid-term Review		19:00-19:30	
19:00-19:30	Convenor J. Mnich	Global activities on future colliders - tbd	Poster Session			Poster Session			Teatime			Teatime			EuroCirCol Mid-term Review		19:00-19:30	

Accommodate efforts from this group + abstracts + review

\* FCC-hh experiments and detector overview 25'+5' (Werner Riegler)

### Common Software (90')

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- \* FCC software 20' (Joschka Lingermann)
- \* ACTS tracking software 20' (Julia Hrdinka, TU Vienna)
- \* ACTS tracking performance 20' (Valentin Volkl, Universitat Innsbruck)
- \* Fast Simulation with PAPAS 20' (Alice Robson, University of Geneva)

### Common Technologies (90')

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- \* Developments for tracking and timing detectors (Norbert Wermes, Bonn) 30'
- \* Radiation hard scintillators (Yasar Onel, University of IOWA) 30'
- \* Future developments for high speed links (Jan Troska, CERN) 30'

### Summary talk

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- \* M. Aleksa

## FCC-hh experiment I (90')

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- \* Physics benchmarks and detector specifications 20' (Michele Selvaggi)
- \* Radiation environment 20' (Ilaria Besana)
- \* Magnet system 20' (Herman Ten Kate)
- \* Magnet system & cavern integration 20' (Helder Filipe Pais Da Silva)

## FCC-hh experiment II (90')

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- \* Tracker Design Overview 20' (Zbynek Drasal)
- \* Tracker Performance Studies 20' (Estel Codina)
- \* Muon system 20' (Werner Riegler, CERN)
- \* Trigger/DAQ 20' (Jim Brooke, Bristol)

## FCC-hh experiment III (90')

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- \* A LAr/Pb EM Calorimeter for FCC-hh 20' (Jana Falvtova)
- \* Digital Electromagnetic Calorimetry at the FCC 20' (Tony Price, Birmingham)
- \* HCAL I 20' (Coralie Neubuser)
- \* HCAL II 20' (Sergei Chekanov, Argonne National Lab)

## FCC-hh experiment IV (90')

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- \* Dark Matter searches (overview + recent progress) 20'
- \* Di-Higgs studies (bbgg + bbWW): Biagio Di Micco 20'
- \* Higgs properties 20'
- \* Disappearing Tracks 10'
- \* Top FCNC 10'
- \* Other studies 10'

# 12 CDR Volumes (9 + 3 Annex)



# 7 Scientific/Technical Volumes

