Session Program

9-13 Apr 2018



FCC Week 2018

Special Technologies

Beurs van Berlage Damrak 243, 1012 ZJ Amsterdam, Netherlands

Tuesday 10 April

08:30 Special Technologies: Beam vacuum system conceptual design I (review) Session | Location: 1.20, P5 Veilingzaal | Convener: Paolo Chiggiato 08:30-08:50 FCC-hh beam vacuum concept (I): BS design, tests and feasibility Speaker Francis Perez 08:50-09:10 Results on the FCC-hh Beam Screen prototype at the KIT electron storage ring. Speaker Luis Antonio Gonzalez Gomez 09:10-09:30 FCC-ee beam vacuum concept: the bean pipe of FCC-ee Speaker Roberto Kersevan 09:30-09:50 Beam Screen surface characterisation for high energy beams: test results at Frascati. Speaker Roberto Cimino 10:00 10:30 Special Technologies: Beam Vacuum System Conceptual Design II (review) Session | Location: 1.20, P5 Veilingzaal | Convener: Francis Perez 10:30-10:45 HTS YBaCuO Coated Conductors for the FCC-hh beam screens Speaker Joffre Gutierrez 10:45-11:00 HTS TI-based coatings for the FCC-hh beam screens Speaker Alessandro Leveratto 11:00-11:20 NEG Coatings and laser surface engineering (LASE) electron cloud mitigation techniques Speaker Dr Oleg Malyshev 11:20-11:40 Shape memory alloys for remote connection of beam pipes in radioactive areas Speaker Cedric Garion 11:40-12:00 Strategies for efficient He trapping

1

Wednesday 11 April

08:30	Special Technologies: Injection & extraction I Session Location: 1.20, P5 Veilingzaal Convener: Peter Levai		
	08:30-08:50 Superconducting Shield (SuShi) septum - towards a full prototype Speaker Dr Daniel Barna		
	08:50-09:10 High field normal conducting massless septa for FCC beam transfer Speaker Alejandro Sanz UII		
	09:10-09:30 Status of truncated cosine-theta septum magnet study Speaker Kei SUGITA		
0:00	09:30-09:50 Marx prototype pulse generator design and initial results Speaker Mike Barnes		
0:30	Special Technologies: Injection & extraction II Session Location: 1.20, P5 Veilingzaal Convener: Ursula Helga Van Rienen		
	10:30-10:50 FCC kicker magnet design, impedance and heating aspects Speaker Mike Barnes		
	10:50-11:10 Laser triggering of thyristor swiches Speaker Nicolas Magnin		
	11:10-11:30 Inductive adder prototype pulse generator for FCC-hh kickers Speaker David Woog		
	11:30-11:50 Development of experimental and theoretical investigations in NRC "Kurchatov Institute" of fast particle irradiation effects on radiation resistance of new collimator and superconductor materials for magnet oriented on the Future Circular Collider (FCC).		

Thursday 12 April

	tion: 1.1, P3 Administratiezaal Convener: Brennan Goddard
08:30-08:50	Improved Concept of HE-LHC Beam Dump
Speaker Armen Apyan	
08:50-09:10	FCC-hh beam dump extraction and dilution kicker systems
Speaker Elisabeth Renne	2r
09:10-09:30	Dilution requirements for the FCC-hh dump
Speaker Anton Lechner	
Special Te Session Loca	chnologies: Electronics & instrumentation (review) tion: 1.1, P3 Administratiezaal Convener: Federico Ravotti
10:30-10:48	Radiation environment assessment in the FCChh and FCCee mach
Speaker Angelo Infantin	0
10:48-11:06	Overview of radiation hardness assurance studies for FCC
Speaker Ruben Garcia A	lia
11:06-11:24	Overview of the dose response in CMOS technology
Speaker Giulio Borghello	,
11:24-11:42	en oltre kink neuticle flooren en dekellen voe fon imediation
experiment	s at FCC radiation levels
Speaker Georgi Gorine	
11:42-12:00	R&D on new concepts for beam instrumentation
Speaker Federico Ronca	rolo
Special Te Session Loca	chnologies: Development of new manufacturing technolo tion: 1.1, P3 Administratiezaal Convener: Said Atieh
13:30-13:50	Cold plasma spray additive manufacturing
Speaker	

13	50-14:10 Additive manufacturing in-situ repair solutions for the FCC
Spe Tom	eaker Is Torims
14	Robotics inspections, maintenance and early intervention for the FCC
Spe Mar	eaker io Di Castro
14	30-14:50 Development of technologies for new cryoplant concepts
Spe Frar 5:00	eaker noois Millet
5:30 Sess	cial Technologies: Machine protection, circuit and powering ion Location: 1.1, P3 Administratiezaal Convener: Jan Uythoven
15	Circuit layout and protection
Spe Mar	eaker co Prioli
15	50-16:05 Quench detection System for the FCC era
Spe Tom	a ker Iasz Podzorny
16	:05-16:20
Pro Spe Vas	posal on a novel energy extraction system for superconducting magnet chains eaker ilios Karaventzas
16	Beam Impact & Machine Protection challenges
Spe Yua	ncun Nie
16	FCC Powering concepts
Spe Frar 7:00	eaker ncisco Rafael Blanquez Delgado