

RF POWER COUPLERS

Tuesday 01/12/20

Chicago Time	Duration	Title	Presenter	Institute
Topic 1: Design studies on high power couplers - Simulation challenges and issues				
9:10 AM	0:05	Introduction	H Jenhani	CEA
9:15 AM	0:20	Design studies on SSR1_SSR2 power couplers - Simulation challenges and issues	S Kazakov	FNAL
9:35 AM	0:15	Discussion		
9:50 AM	0:20	Design studies on LB650 & HB650 power couplers - Simulation challenges and issues	S Kazakov	FNAL
10:10 AM	0:20	Discussion		
10:30 AM	0:10	Break		
Topic 2: Comparative analysis of Power Coupler designs used in different facilities worldwide				
10:40 AM	0:20	Comparative analysis of PIP-II to the designs used in different facilities worldwide	S Kazakov	FNAL
11:00 AM	0:20	Discussion		
11:20 AM	0:20	Design considerations for assembly operations and integration needs	O Pronitchev	FNAL
11:40 AM	0:20	Discussion		
12:00 PM	0:00	Session End		

Wednesday 02/12/20

Time	Duration	Title	Presenter	Institute
Topic 3: Manufacturing of high power couplers - key technologies and challenges				
7:30 AM	0:05	Introduction	H Jenhani	CEA
7:35 AM	0:20	Manufacturing of PIP-II high power couplers - Experience feedback	K Premo	FNAL
7:55 AM	0:20	Discussion		
8:15 AM	0:20	On going manufacturing of PIP-II high power couplers	K Premo	FNAL
8:35 AM	0:20	Discussion		
8:55 AM	0:20	704MHz ESS Power couplers manufacturing experience feedback	G Devanz	CEA
9:15 AM	0:20	Discussion		
9:35 AM	0:15	Break		
Topic 4: Testing, qualification, transportation and storage of Couplers - experiences and best practices				
9:50 AM	0:20	PIP-II Power couplers qualifications and acceptance tests	K Premo	FNAL
10:10 AM	0:20	Discussion		
Topic 5: Room temperature RF test stand and HTS testing of Couplers - Processing, clean room and RF Power system				
10:30 AM	0:20	Cleaning and RF power test performances needs for Power couplers	H Guler	IJCLab
10:50 AM	0:20	Discussion		
11:10 AM	0:25	PIP-II power couplers cleaning and RT RF power tests	N Solyak / S Kazakov	FNAL
11:35 AM	0:25	Discussion		
12:00 PM	0:00	Session End		

Thursday 03/12/20

Time	Duration	Title	Presenter	Institute
Topic 6: Development of key technologies for Power Coupler manufacturing experiences and challenges				
7:30 AM	0:05	Introduction	H Jenhani	CEA
7:35 AM	0:20	Indian Power couplers activities: Coupler test bench and manufacturing experience	R Kumar	BARC
7:55 AM	0:20	Discussion		
8:15 AM	0:20	Development of key technologies for Power Coupler manufacturing - experiences and challenges	D Kostin	DESY
8:35 AM	0:20	Discussion		
8:55 AM	0:15	New ceramic developments...	B Freemire	Euclid
9:10 AM	0:10	Discussion		
9:20 AM	0:15	Break		
Topic 7: Experiences with large scale power coupler manufacturing				
9:35 AM	0:20	LCLS II power coupler manufacturing feedback	K Premo	FNAL
9:55 AM	0:20	Discussion		
10:15 AM	0:20	XFEL large scale power coupler manufacturing feedback	W Kaabi	IJCLab
10:35 AM	0:20	Discussion		
10:55 AM	0:40	Hot topics (open discussion): 1. TiN coating (technique, thickness, composition, etc) 2. Copper plating (adhesion, long operation stability, RRR, etc.) 3. HP Processing (need for re-processing at CM (in-situ) a RT/cold?)	All	
11:35 AM	0:25	Discussion/Closeout/Report	H Jenhani / R Kumar	CEA / BARC
12:00 PM	0:00	Session End		