

SRF CAVITY DESIGN & ANALYSIS

Tuesday 01/12/20

Chicago Time	Duration	Title	Presenter	Institute
Multiphysics Simulations				
9:10 AM	0:05	Introduction	D. Longuevergne P. Berrutti	IJCLab FNAL
9:15 AM	1:15	Presentation of the different methods used by each partner to perform multiphysics analysis (simulations, code assumptions, ...)	Lunin Patricia Piyush D'Ambros Plouin	FNAL IJCLAB BARC INFN CEA
10:30 AM	0:15	Break		
10:45 AM	1:00	Presentation of some advanced analysis: How to simulate and take into consideration the fabrication constraints (impact of the welds, of the forming process on the thickness). How to analyze the impacts on multiphysics analysis? How to simulate BCP etching?	Mattia Parise Enrico Cenni	FNAL CEA
11:45 AM	0:15	General Discussion		

Wednesday 02/12/20

Time	Duration	Title	Presenter	Institute
Multipacting Simulations				
7:30 AM	0:05	Introduction	D. Longuevergne P. Berrutti	IJCLab FNAL
7:35 AM	0:45	Presentation of the different methods used by each partner to perform multipacting analysis (simulation codes, assumptions,...)	N. Hu G. Romanov Abhishek Pathak	IJCLab FNAL BARC
8:20 AM	0:45	Presentation of some advanced analysis : How correlate multipacting simulation outputs (final number of electrons, growth rate) with experimental observations (conditioning time,...) Open discussion: How to include multipacting simulations during the geometrical optimization process of SRF cavity	Sasha Sukhanov All	FNAL
9:05 AM	0:25	Closeout / Summary Report	D. Longuevergne P. Berrutti	IJCLab FNAL
9:30 AM	0:15	Break		