NA-PAC PIP-II related talks

TD

ID: 1824 Multipacting in HOM Coupler of LCLS-2 1.3 GHz SC Cavity ".

Presenter Gennady Romanov (Fermilab, Batavia, Illinois)

Authors Gennady Romanov, Timergali N. Khabiboulline, Andrei Lunin (Fermilab, Batavia, Illinois)

Main Classification 5: Beam Dynamics and EM Fields

Sub Classification

ID: 1880 Simulation of Multipacting with Space Charge Effect in PIP-II 650 MHz Cavities

Presenter Gennady Romanov (Fermilab, Batavia, Illinois)

Authors Gennady Romanov (Fermilab, Batavia, Illinois)

Main Classification 5: Beam Dynamics and EM Fields

Sub Classification

ID: 1964 Higher Order Mode Analysis of Fermilab¿s Recycler Cavity

Presenter Mohamed H. Awida (Fermilab, Batavia, Illinois)

Authors Mohamed H. Awida, Timergali N. Khabiboulline (Fermilab, Batavia, Illinois)

Main Classification 7: Accelerator Technology Main Systems

Sub Classification

ID: 1965 Electromagnetic Design of Variable Couplers for Testing SRF Cavities

Presenter Mohamed H. Awida (Fermilab, Batavia, Illinois)

Authors Mohamed H. Awida, Timergali N. Khabiboulline (Fermilab, Batavia, Illinois)

Main Classification 7: Accelerator Technology Main Systems

Sub Classification

ID: 2167 Nb3Sn SRF Coatings at Fermilab

Presenter Sam Posen (Fermilab, Batavia, Illinois)

Authors Sam Posen, Margherita Merio, Alexander S Romanenko, Yulia Trenikhina (Fermilab, Batavia, Illinois)

Main Classification 7: Accelerator Technology Main Systems

Sub Classification T07 - Superconducting RF

ID: 2164 Mitigating Q0 Degradation in SRF Cavities Through Improved Flux Expulsion

Presenter Sam Posen (Fermilab, Batavia, Illinois)

Authors Sam Posen, Mattia Checchin, Anthony Curtis Crawford, Anna Grassellino, Martina Martinello, Oleksandr Stepanovych Melnychuk, Alexander S Romanenko, Dmitri A. Sergatskov, Yulia Trenikhina (Fermilab, Batavia, Illinois)

Main Classification 7: Accelerator Technology Main Systems

Sub Classification T07 - Superconducting RF

ID: 1202 Progress in High Q SRF cavities development: from Single Cell to Cryomodule

Speaker Anna Grassellino (Fermilab, Batavia, Illinois)
Authors Anna Grassellino (Fermilab, Batavia, Illinois)
Type of Presentation Invited Oral
Main Classification 7: Accelerator Technology Main Systems
Sub Classification

ID: 1879 Theoretical Dependence of the Vortexes Surface Impedence on the Mean Free Path

Presenter Mattia Checchin (Fermilab, Batavia, Illinois)
Authors Mattia Checchin (Fermilab, Batavia, Illinois)
Main Classification 7: Accelerator Technology Main Systems
Sub Classification

ID: 1865 Ultimate Gradient Limitation in Niobium Superconducting Accelerating Cavities

Presenter Mattia Checchin (Fermilab, Batavia, Illinois)
Authors Mattia Checchin (Fermilab, Batavia, Illinois)
Main Classification 7: Accelerator Technology Main Systems
Sub Classification

ID: 1864 Surface Impurity Content Optimization to Maximize Q-factors of Superconducting Resonators

Presenter Martina Martinello (Fermilab, Batavia, Illinois)
Authors Martina Martinello (Fermilab, Batavia, Illinois)
Main Classification 7: Accelerator Technology Main Systems
Sub Classification

ID: 2046 Design and Test of the Prototype Tuner for 3.9GHz SRF Cavity for LCLS II Project

Presenter Yuriy Pischalnikov (Fermilab, Batavia, Illinois)
Authors Yuriy Pischalnikov, Evgueni Borissov, Jeremiah Paul Holzbauer, Jae-Chul Yun (Fermilab, Batavia, Illinois)
Main Classification 7: Accelerator Technology Main Systems
Sub Classification T07 - Superconducting RF

ID: 2045 LCLS-II Tuner Assembly for the Prototype Cryomodule at FNAL

Presenter Yuriy Pischalnikov (Fermilab, Batavia, Illinois)
Authors Yuriy Pischalnikov, Evgueni Borissov, Jeremiah Paul Holzbauer, Timergali N. Khabiboulline, Jae-Chul Yun (Fermilab, Batavia, Illinois)
Main Classification 7: Accelerator Technology Main Systems
Sub Classification T07 - Superconducting RF

ID: 2027 Design of main coupler for 650 MHz SC cavities of PIP-II project.

Presenter Sergey Kazakov (Fermilab, Batavia, Illinois)
Authors Sergey Kazakov, Oleg Pronitchev (Fermilab, Batavia, Illinois)
Main Classification 7: Accelerator Technology Main Systems

Sub Classification T07 - Superconducting RF

ID: 2033 Design Considerations for the Fermilab PIP-II 800 MeV Superconducting Linac

Presenter Arun Saini (Fermilab, Batavia, Illinois)

Authors Arun Saini (Fermilab, Batavia, Illinois)

Main Classification 4: Hadron Accelerators

Sub Classification A08 - Linear Accelerators

Vincent Roger, "Design of the high beta 650 MHz Cryomodule - PIP II"

A. Burov, "Coupled-Bunch Instability for Slipping Beams".

J.-P. Carneiro "Beam measurements at the PXIE Low Energy Beam Transport"

Co-Authors: B. Hanna, L. Prost, S. Shemyakin, V. Scarpine

J.-P. Carneiro "Beam measurements at the PXIE ion source and comparison with PBGUNS"

Co-Authors: L. Zhao (Far-Tech Inc., San-Diego, CA)

J.-P. Carneiro "Procedure for the alignment of the beam in the electrical axes of the PXIE Radio-Frequency Quadrupole"

Co-Authors: L. Prost, S. Shemyakin, J. Steimel,

S. Antipov, Electron Cloud Trapping in Recycler Combined Function Dipole Magnets

S. Antipov, Model of Electron Cloud Instability in Fermilab Recycler

D. Bowring, "Resonance control of Fermilab's PIP-II Injector Test RFQ in pulsed and CW modes"

J. Edelen, "Modeling and Analysis of Resonant Frequency Responses in a CW RFQ"

A. Edelen, "Machine Learning and Artificial Intelligence Based Controls for Particle Accelerators"