

Session Program

10-14 Jun 2024



FCC Week 2024

Poster session

The Westin St. Francis San Francisco on Union Square
335 Powell St, San Francisco, CA 94102, United States

Wednesday 12 June

18:30

Poster session

Session | **Location:** Colonial & Italian | **Convener:** Frank Zimmermann

18:30-18:31

Investigation of low gain avalanche detectors exposed to proton fluences beyond $10^{15} \text{ n}_{\text{eq}}/\text{cm}^2$ and gamma dose up to 2.2 MGy

Speaker

Josef Daniel Sorenson

18:31-18:32

Using Generative AI to Explore the Limits of Jet Tagging

Speaker

Nishank Nilesh Gite

18:32-18:33

High radiation resistance LGAD designs

Speaker

Dr Simone Michele Mazza

18:33-18:34

Exploring the supersymmetry through gauginos with FCC-hh

Speaker

So Chigusa

18:34-18:35

Heavy Neutral Leptons Search in a Realistic Neutrino Oscillation Model at FCC-ee

Speaker

Xunwu Zuo

18:35-18:36

Exploring New Physics with the Optical Dump at LUXE and Prospects for Future Facilities

Speaker

Ivo Schulthess

18:36-18:37

The $e^+ e^- \rightarrow Z H$ process in the Standard Model Effective Field Theory beyond Leading Order

Speaker

Konstantin Asteriadis

18:37-18:38

The GeoModel Toolkit for FCC simulation

Speaker

Vakho Tsulaia

18:38-18:39

Integrated Carbon Fiber Composite Structures for Future HEP Detectors

Speaker

Sushrut Rajendra Karmarkar

18:39-18:40 FCC-ee tuning studies with pyAT**Speaker**

Elaf Musa

18:40-18:41 FCCAnalyses cheatsheet**Speaker**

Juraj Smiesko

18:41-18:42 End-to-end ML-based reconstruction**Speaker**

Gregor Krzmann

18:42-18:43 Key4hep cheatsheet**Speaker**

Juan Miguel Carceller

18:43-18:44**Autoencoder Style Neural Networks for Estimation and Control with Unknown Time Varying Parameters****Speaker**

Alan Williams

18:44-18:45 Full simulation of IDEA muon system**Speaker**

Mahmoud Ali

18:45-18:46**A Triplet Track Trigger Case Study for FCC-hh: Enhancing the Measurement of Di-Higgs Production and Higgs Self-Coupling****Speaker**

Ms Tamasi Kar

18:46-18:47 Recent results on dual readout crystal EM calorimetry**Speaker**

Sara Nabili

18:47-18:48**The air-cooling system for the IDEA Vertex Detecor at FCC-ee: thermal performance and vibrational effects****Speaker**

Dr Giorgio Baldinelli

18:48-18:49**Structural Optimization of Future Circular Collider Interaction Region Support Structure****Speaker**

Francesco Franesini

18:49-18:50 Material Budget of the FCC-ee IR**Speaker**

Giulia Nigrelli

18:50-18:51

A next generation, integrated community toolset for the modeling of colliders**Speaker**

Jean-Luc Vay

18:51-18:52

Operational Considerations for Laser Control of the FCC Bunch Intensity**Speaker**

Spencer Gessner

18:52-18:53

Enhancing positron sources for future colliders through conical converter targets**Speaker**

Nicolas Vallis

18:53-18:54

Diagnostics for the FCC-ee positron source test facility at PSI**Speaker**

Nicolas Vallis

18:54-18:55

Lepton injection and extraction system at FCCee**Speaker**

Sen Yue

18:55-18:56

Input signals for error mitigation by interaction point fast feedback systems for FCC-ee**Speaker**

Mr John Patrick Salvesen

18:56-18:57

Simulated Performance of FCC-ee IP Tuning Knobs**Speaker**

Satya Sai Jagabathuni

18:57-18:58

ALLEGRO detector concept for FCC-ee**Speaker**

Jana Faltova

18:58-18:59

Luminosity tuning and optimization**Speaker**

Vaibhavi Gawas

18:59-19:00

Optimization of FCC circumference for hh**Speaker**

Heiko Damerau

19:00-19:01

The Development of Silicon Carbide Low Gain Avalanche Detector**Speaker**

Tao Yang

19:01-19:02

FCC-relevant capabilities and competencies available from ANL**Speaker**

Philippe Piot