



# FCC Week 2024

## Tuesday 11 June 2024

### Physics, Experiments and Detectors: Physics Case and Theoretical Calculations (1) - Elizabethan A (08:29 - 10:00)

-Conveners: Robert Szafron

time	[id] title	presenter
08:29	[268] FCC_YQA	JANOT, Patrick
08:30	[101] Higgs physics and SMEFT at FCC	Prof. PETRIELLO, Francis
08:45	[102] BSM searches with FCC-ee	VERHAAREN, Christopher
09:00	[8] QCD for Higgs physics at FCC-ee	D'ENTERRIA, David
09:20	[103] The $e^+ e^- \rightarrow Z H$ process in the Standard Model Effective Field Theory beyond Leading Order	ASTERIADIS, Konstantin
09:40	[18] FCC-ee sensitivity to SUSY through precision Z-boson measurements	LANGHOFF, Kevin

### Physics, Experiments and Detectors: Physics Case and Theoretical Calculations (2) - Elizabethan A (10:30 - 12:00)

-Conveners: Christoph Paus

time	[id] title	presenter
10:30	[105] BSM at FCC-ee	DEMIRAGLI, Zeynep
10:45	[106] EW/QCD measurements using $ee \rightarrow \text{hadrons}$	MALTA NOGUEIRA, Marina
11:00	[107] General Higgs overview at FCC-ee	SELVAGGI, Michele
11:20	[108] Jet tagging as a tool for measuring Higgs couplings at $O(0.1\%)$ precision and $H \rightarrow s\bar{s}$	GOUSKOS, Loukas
11:40	[109] Higgs properties + Top at FCC-ee	LI, Ang

### Physics, Experiments and Detectors: Detector Concepts (i) - Elizabethan A (13:30 - 15:00)

-Conveners: Mogens Dam

time	[id] title	presenter
13:30	[110] Gaseous tracking review	IAKOVIDIS, George
13:50	[111] MAPS-based tracker developments from ITS3 towards FCCee	CONTIN, Giacomo
14:15	[112] Fast timing possibilities at FCC-ee	GIGNAC, Matthew
14:35	[113] Opportunities for low mass mechanics/cooling for FCC-ee	ANDERSSEN, Eric

### Physics, Experiments and Detectors: Detector Concepts (ii) - Elizabethan A (15:30 - 17:00)

-Conveners: Marc-Andre Pleier

time	[id] title	presenter
15:30	[114] Review of the Silicon and SiPM-Scintillator Calorimeters	MANS, Jeremy
15:52	[115] Review of Noble-Liquid Calorimetry	PEKKANEN, Juska

16:14	[116] Review of Crystal and Fibre Dual-Readout Calorimetry	ENO, Sarah
16:36	[32] Noble Liquid Endcap EM Calorimeter: Geometry and Simulation	VARNES, Erich Ward
16:48	[14] Recent Progress of Inorganic Scintillators for Future HEP Calorimetry	ZHU, Renyuan

**Physics, Experiments and Detectors: Detector Concepts (iii) - Elizabethan A (17:30 - 19:00)**

-Conveners: Zeynep Demiragli

time	[id] title	presenter
17:30	[117] Full simulation status CLD/ILD	GAEDE, Frank-Dieter
17:48	[118] Full simulation status for IDEA detector concept for FCC-ee	ALI, Mahmoud ALI, Mahmoud
18:06	[119] Full simulation status ALLEGRO	FRANCOIS, Briec
18:24	[15] Optimization of Si tracking systems	ILG, Armin
18:42	[121] TDAQ Occupancy studies at FCC-ee	ILG, Armin

# Wednesday 12 June 2024

## Physics, Experiments and Detectors: Detector Requirements (i) - Elizabethan A (08:30 - 10:00)

-Conveners: Mike Hance

time	[id] title	presenter
08:30	[122] Introductory talk: requirements for Z and Higgs program	SELVAGGI, Michele
08:50	[123] Vertexing options at FCC-ee	ROHRIG, Lars
09:05	[124] Precision tracking, including measurement of displaced tracks and muons at FCC-ee	DE FILIPPIS, Nicola
09:20	[125] Measuring taus at FCC-ee	CHRZASZCZ, Marcin
09:35	[126] Flavor Tagging	Dr SCIANDRA, Andrea

## Physics, Experiments and Detectors: Software - Elizabethan A (10:30 - 12:00)

-Conveners: David Lange

time	[id] title	presenter
10:30	[127] New functionalities in FCC core software	CARCELLER, Juan Miguel
10:50	[128] Experience with FCC software	SNYDER, Scott
11:10	[132] Event Visualization and FCC Analyses cheatsheet	SMIESKO, Juraj
11:25	[130] Computing resource needs for the FSR and beyond	GANIS, Gerardo
11:40	[133] GeoModel Toolkit for FCC simulation	TSULAIA, Vakho

# Thursday 13 June 2024

## Physics, Experiments and Detectors: Detector Requirements (ii) - Elizabethan A (08:30 - 10:00)

-Conveners: Junjie Zhu

time	[id] title	presenter
08:30	[134] Introduction to requirements for BSM program	SKINNARI, Louise
08:45	[135] Measuring Electrons & Photons with high precision	TULLY, Chris
09:00	[136] PID, strange tagging, and timing at FCC-ee	ZUO, Xunwu
09:15	[137] Measuring Jets and Mass with precision	ELVIRA, Victor Daniel
09:30	[138] ML for detector geometry and reco optimization	GARCIA, Dolores

## Physics, Experiments and Detectors: Detector Concepts (iv) - Elizabethan A (17:00 - 18:30)

-Conveners: Carl Haber

time	[id] title	presenter
17:00	[234] The Silicon Vertex Tracker of the ePIC Detector at the Electron-Ion Collider	APADULA, Nicole
17:20	[12] The OBELIX sensor for the Belle II VTX Upgrade	SCHWANDA, Christoph
17:40	[17] Development of precision tracking detectors at Fermilab	APRESYAN, Artur
18:00	[16] A Straw Tracker for the FCC-ee	ZHU, Junjie