



# 7th FCC Physics Workshop

## Tuesday 30 January 2024

### Parallel 1: Physics Programme: Big picture, Cosmo interplay - Auditorium (09:00 - 10:30)

time	[id] title	presenter
09:00	[45] Gravitational Wave - FCC Connection	NARDINI, Germano
09:20	[46] EWPT and Higgs Properties	MATSEDONSKYI, Oleksii
09:40	[47] Positivity, BSM, FCC	DAVIGHI, Joseph Enea
10:00	[48] Matching BSM to SMEFT	DURIEUX, Gauthier

### Parallel 1: Joint session: Physics Programme & Performance: BSM - Auditorium (11:00 - 12:30)

time	[id] title	presenter
11:00	[49] Low-Scale Leptogenesis with Low-Energy Dirac CP-Violation	GRANELLI, Alessandro
11:22	[50] Heavy neutrino-antineutrino oscillations at the FCC-ee	HAJER, Jan
11:44	[51] Probing High Scale Physics via Standard Model Parameters	DUNSKY, David
12:06	[52] Sensitivity to HNL discovery and oscillation	VALLE, Nicolo

### Parallel 1: Physics Performance - Auditorium (17:45 - 18:45)

time	[id] title	presenter
17:45	[68] Updates on ML reconstruction	GARCIA, Dolores
18:00	[69] PID performance and tools	COCCARO, Andrea PARODI, Fabrizio
18:15	[70] Requirements from $B \rightarrow K^* \tau \tau$	MIRALLES, Tristan
18:30	[71] HNL mass reconstruction from timing measurements	POLESELLO, Giacomo

# Wednesday 31 January 2024

## Parallel 1: Joint session: Physics Programme & Performance: QCD and Flavour - Auditorium (09:00 - 10:30)

time	[id] title	presenter
09:00	[54] Prospects for searches of $b \rightarrow sv\bar{\nu}$ decays at FCC-ee	KENZIE, Matthew William
09:18	[55] Measuring Hadronic Higgs Boson Branching Ratios at Future Lepton Colliders	REICHELDT, Daniel
09:36	[56] Invisible Bs decays	ESCUADERO ABENZA, Miguel
09:54	[57] jet charge identification in ee-Z-qq process at Z pole operation [remote]	RUAN, Manqi
10:12	[58] Vcb in WW	MONTEIL, Stephane

## Parallel 1: Joint session: Physics Programme & Performance: QCD and Flavour - Auditorium (11:00 - 12:30)

time	[id] title	presenter
11:00	[137] Constraining the (d,s) unitarity triangle with $B_{d,s}$ decays to $\phi K^*$	PEREZ, Emmanuel Francois
11:15	[138] Anomalies in B to $K^* \bar{K}^*$ and prospects for FCC-ee [remote]	ALEKSAN, Roy
11:30	[73] Lund Jet plane studies	PANWAR, Lata PANWAR, Lata
11:50	[129] Recent progress in parton showers with higher logarithmic accuracy	FERRARIO RAVASIO, Silvia
12:10	[128] Logarithmically accurate N(N)LO matching at FCC-ee	KARLBERG, Alexander

## Parallel 1: Physics Programme: BSM - Auditorium (17:45 - 18:45)

time	[id] title	presenter
17:45	[132] New physics in the forward kinematic region of the FCC	TROJANOWSKI, Sebastian
18:05	[131] Z' models	PATTNAIK, Baibhab
18:25	[135] Search for the 3-3-1 symmetry at the LHC and Future Colliders [remote]	SANCHEZ VILLAMIZAR, Yoxara

# Thursday 1 February 2024

## **Parallel 1: Joint session: Physics Programme & Performance: Higgs and EW - Auditorium (09:00 - 10:30)**

time	[id] title	presenter
09:00	[59] Flavour violating Higgs and Z decays at FCC-ee	TAMMARO, Michele
09:20	[133] impact on EWPOs of the $\alpha$ QED uncertainty	BLONDEL, Alain
09:40	[60] FCC-ee/FCC-hh reach for rare and exclusive few-body decays of the Higgs, Z, W bosons, and the top quark	LE, Van Dung
10:00	[134] Update on Higgs self-coupling determination	TALIERCIO, Angela STAPF, Birgit

## **Parallel 1: Joint session: Physics Programme & Performance: Higgs and EW - Auditorium (11:00 - 12:30)**

time	[id] title	presenter
11:00	[63] Drell-Yan at the LHC towards FCC-ee	VICINI, Alessandro
11:20	[65] Measurement of the Higgs width	MORANGE, Nicolas
11:40	[72] Higgs coupling in fully hadronic final states	IAKOVIDIS, George

## **Parallel 1: Joint session: Physics Programme & Performance: Higgs and BSM - Auditorium (17:45 - 18:45)**

time	[id] title	presenter
17:45	[130] Exotic Higgs decays to LLPs	VANDE VOORDE, Magdalena
18:05	[53] Updated ALPs limits from photon-photon fusion at FCC-ee	REBELLO TELES, Patricia
18:25	[64] The lost treasure: Gildener-Weinberg multi-Higgs models	LANE, Kenneth