



# ICHEP 2024

## Thursday, 18 July 2024

### Higgs Physics - South Hall 2A (08:30 - 10:15)

-Conveners: Eleni Vryonidou; Michaela Mlynarikova

time	[id] title	presenter
08:40	[500] Measurements of Higgs boson cross-sections and their interpretation with the ATLAS experiment	YANG, Xiao
08:57	[147] Higgs boson cross section and coupling measurements at CMS	SPAEH, Jan Lukas
09:14	[495] Measurements of the Higgs boson mass with the ATLAS detector	COELHO LOPES DE SA, Rafael
09:31	[148] Measurements of the Higgs boson mass and width at CMS	MARZOCCHI, Badder
09:48	[104] NNLO+PS predictions for Higgs production via bottom fusion	BIELLO, Christian

### Higgs Physics - South Hall 2A (10:45 - 12:30)

-Conveners: Eleni Vryonidou; Linda Finco

time	[id] title	presenter
10:45	[146] STXS and differential Higgs boson cross section measurements at CMS	CAMAIANI, Benedetta
11:02	[503] Search for rare processes and lepton-flavor-violating decays of Higgs boson at the ATLAS experiment	ZHOU, Bing
11:19	[150] Searches for rare Higgs boson decays at CMS	Mr ARDINO, Rocco
11:36	[502] Measurements of the CP structure of Higgs-boson couplings with the ATLAS detector	BASSO, Matthew
11:53	[149] Anomalous Higgs boson couplings and CP properties at CMS	MORAN, Dermot Anthony
12:10	[523] Prospects for single- and di-Higgs measurements at the HL-LHC with the ATLAS experiment	WANG, Song-Ming

### Higgs Physics - South Hall 2A (14:30 - 16:15)

-Conveners: Daniel De Florian; Katharine Leney

time	[id] title	presenter
14:30	[516] Probing the nature of electroweak symmetry breaking with Higgs boson pairs in ATLAS	PORTILLO QUINTERO, Dilia Maria
14:47	[154] Di-Higgs searches at CMS	MANTILLA SUAREZ, Cristina Ana
15:04	[572] Analytic electroweak corrections to gluon-fusion di-Higgs and Higgs plus jet production	ZHANG, Hantian
15:21	[889] Taming a leading theoretical uncertainty in $HH$ measurements via accurate simulation for $bbH$ production	MAZZEO, Elena
15:38	[824] Towards NNLO QCD corrections to Higgs boson pair production	STEINHAUSER, Matthias

15:55	[615] Sensitivity to New Physics in final states with multiple gauge and Higgs bosons	CAPPATI, Alessandra
-------	---	---------------------

### **Higgs Physics - South Hall 2A (16:45 - 18:30)**

**-Conveners: Michaela Mlynarikova; Daniel De Florian**

time	[id] title	presenter
16:45	[489] Higgs physics opportunities at the FCC	MARCHIORI, Giovanni
17:02	[1447] Expected Measurements of the Higgs boson mass and ZH production cross sections at $\sqrt{s}$ up to 365 GeV, at the Future e+e- Circular Collider (FCC-ee)	BERNARDI, Gregorio
17:19	[184] Subleading Higgs effects in e+e- -> fermion+antifermion	MAAS, Axel Torsten
17:36	[1041] Higgs Physics at Multi-TeV Muon Collider	ZULIANI, Davide
17:53	[248] What Can Be Learnt From Higgs Studies at ILC	ZARNECKI, Aleksander
18:10	[1316] Higgs precision Higgs physics in electron-proton scattering at CERN	KLEIN, Uta

# Friday, 19 July 2024

## Higgs Physics - South Hall 2A (10:45 - 12:30)

-Conveners: Marco Zaro; Daniel De Florian

time	[id] title	presenter
10:45	[432] Higgs Physics at LHCb	ZULIANI, Davide
11:02	[497] Measurements of Higgs boson production with top quarks with the ATLAS detector	NECHANSKY, Filip
11:19	[152] Searches for rare Higgs boson production processes with the CMS detector	CARDINI, Andrea
11:36	[499] Measurements of Higgs boson coupling properties to tau leptons with the ATLAS detector	YOUNG, Christopher
11:53	[498] Measurements of Higgs boson coupling properties to bottom quarks and charm quarks with the ATLAS detector	DI BELLO, Francesco Armando
12:10	[130] Top-Bottom Interference Contribution to Fully-Inclusive Higgs Production	ESCHMENT, Felix

## Higgs Physics - South Hall 2A (14:30 - 16:15)

-Conveners: Eleni Vryonidou; Daniel De Florian

time	[id] title	presenter
14:30	[517] Searches for resonances decaying to pairs of Higgs bosons in ATLAS	COCCARO, Andrea
14:47	[1445] The Gildener-Weinberg mechanism for light Higgs bosons	LANE, Kenneth
15:04	[1167] Analysis of interference effects in the di-top final state for CP-mixed scalars in extended Higgs sectors	WEIGLEIN, Georg Ralf
15:21	[1146] NLO QCD effects on angular observables in single Higgs production at electron-proton collider	SHARMA, Pramod
15:38	[128] Probing CPV mixing in the Higgs sector in VBF at 1 TeV ILC	Dr BOZOVIC-JELISAVCIC, Ivanka
15:55	[1344] Determination of CP-violating Higgs couplings with transversely-polarized beams at the ILC	LI, Cheng

# Saturday, 20 July 2024

## Higgs Physics - South Hall 2A (08:30 - 10:15)

-Conveners: Linda Finco; Marco Zaro

time	[id] title	presenter
08:30	[153] EFT interpretations in the Higgs sector at CMS	DUTTA, Irene
08:47	[965] Mapping the SMEFT at High-Energy Colliders: from LEP and the (HL-)LHC to the FCC-ee	TER HOEVE, Jaco
09:04	[1230] Analysis of beyond the Standard Model resonances with effective approaches and oblique parameters	ROSELL, Ignasi
09:21	[1257] Higgs-muon interactions at a multi-TeV muon collider	Dr MA, Yang
09:38	[1323] Discerning effective theories through multi-Higgs production	SANZ-CILLERO, Juan José

## Higgs Physics - South Hall 2A (10:45 - 12:30)

-Conveners: Katharine Leney; Marco Zaro

time	[id] title	presenter
10:45	[1261] Constraining the Higgs self-couplings through triple Higgs production at the HL-LHC and beyond	STYLIANOU, Panagiotis
11:02	[664] Measuring triple Higgs production in current and future colliders	TETLALMATZI-XOLOCOTZI, Gilberto
11:19	[844] Higgs Self-coupling Strategy at Linear e+e- Colliders	LIST, Jenny
11:36	[1250] Impact of the trilinear Higgs self-coupling on resonant and non-resonant di-Higgs production	WEIGLEIN, Georg Ralf
12:01	[127] NLP corrections for H+ jet production.	PAL, Sourav

## Higgs Physics - South Hall 2A (14:30 - 16:15)

-Conveners: Eleni Vryonidou; Katharine Leney

time	[id] title	presenter
14:30	[574] Status of the Aligned two Higgs doublet model in the low mass region	KARAN, Anirban
14:47	[999] Probing Charged Higgs Bosons in the 2-Higgs Doublet Model Type-II with Vector-Like Quarks	BOUKIDI, Mohammed
15:04	[1181] Reduction of couplings in the 2HDM	PATELLIS, Gregory
15:21	[520] Searches for singly- and doubly-charged Higgs bosons in ATLAS	HORII, Yasuyuki
15:38	[151] Searches for additional Higgs bosons (high & low mass) at CMS	LIU, Geliang
15:55	[519] Searches for low mass resonances (resolved signatures)	TRUONG, Thi Ngoc Loan

## Higgs Physics - South Hall 2A (16:45 - 18:30)

-Conveners: Michaela Mlynarikova; Linda Finco

time	[id] title	presenter
16:45	[1157] Scalar sector of Type2 Seesaw model explorations with multi-lepton final states	JINARU, Adam

17:02	[529] Searches for rare decays of the Higgs boson into light pseudoscalars at CMS	KWAN, Stephanie
17:19	[522] Searches for axion-like-particles (ALPs) in Higgs boson decays in ATLAS	MARTINEZ SUAREZ, Paula
17:36	[80] Performing foundational quantum tests with Higgs bosons	BARR, Alan
17:53	[1166] Searching for $H \rightarrow hh \rightarrow bb\tau\tau$ in the 2HDM Type-I at the LHC	SEMLALI, Souad
18:10	[860] Search for Exotic Scalars at the International Linear Collider	ZARNECKI, Aleksander