



# EPS-HEP2021 conference

## Monday, 26 July 2021

### T09: Higgs Physics: Precision - part 1 (10:00 - 12:00)

-Conveners: Sarah Heim; Michael Trott; meng xiao; Giovanni Marchiori

time	[id] title	presenter
10:00	[199] Measurements and interpretations of Simplified Template Cross Sections, differential and fiducial cross sections in Higgs boson decays to two photons with the ATLAS detector	ROSSI, Eleonora
10:11	[197] Measurements and interpretations of Simplified Template Cross Sections and differential and fiducial cross sections in Higgs boson decays to two W bosons with the ATLAS detector	LU, Yun-Ju
10:22	[198] Measurements and interpretations of Simplified Template Cross Sections, differential and fiducial cross sections in Higgs boson decays to four leptons with the ATLAS detector	ANASTOPOULOS, Christos
10:33	[287] Measurements of Higgs boson cross sections and differential distributions in bosonic final states (CMS)	LANGFORD, Jonathon
10:50	[728] Parton-Shower Effects in Higgs Production via Vector-Boson Fusion	SCHELLER, Johannes
11:07	[192] Combined measurements of Higgs boson production and decays with the ATLAS detector	HUANG, Yanping
11:18	[191] Studies of the CP properties of the Higgs boson at the ATLAS experiment	LEIGHT, William
11:35	[815] The JHU generator framework: EFT applications in Higgs physics	DAVIS, Jeffrey
11:52	[1084] GeoSMEFT and applications [until 12:09, just shortened for agenda purposes]	CORBETT, Tyler

### T09: Higgs Physics: Precision - part 2 / Yukawa - part 1 (14:15 - 16:15)

-Conveners: Sarah Heim; Michael Trott; Giovanni Marchiori; meng xiao

time	[id] title	presenter
14:15	[75] Higgs-plus-jet differential distributions as stabilizers of the high-energy resummation	CELIBERTO, Francesco Giovanni
14:32	[952] Precise predictions of the mass of the discovered Higgs boson in supersymmetric scenarios	RZEHAK, Heidi
14:49	[195] Measurements and interpretations of Higgs boson production using decays to two b-quarks with the ATLAS detector	KRIZKA, Karol
15:06	[194] Higgs boson coupling to second generation fermions with the ATLAS detector	STAMENKOVIC, Marko
15:23	[288] Measurements of Higgs production and decay in final states involving quarks (CMS)	NIGAMOVA, Aliya
15:40	[919] The h(125) decays to c cbar, b bbar, b sbar, photon photon and gluon gluon in the light of the MSSM with quark flavor violation	HIDAKA, Keisho
15:57	[85] Resurrecting bbh with Machine Learning Magic	QIAN, Zhuoni

**T09: Higgs Physics: Yukawa - part 2 (16:30 - 18:30)****-Conveners: Sarah Heim; Michael Trott; meng xiao; Giovanni Marchiori**

time	[id] title	presenter
16:30	[209] Hbb dead or alive?	ZARO, Marco
16:47	[196] Measurements of Higgs boson production in decays to two tau leptons with the ATLAS detector	MLYNARIKOVA, Michaela
17:04	[286] Measurements of Higgs boson cross sections and differential distributions in leptonic final states (CMS)	LOELIGER, Andrew
17:21	[190] Search for rare decays of the Higgs boson with the ATLAS detector	BASALAEV, Artem
17:38	[289] Measurements of Higgs boson properties and couplings at CMS	Dr SARICA, Ulascan
17:55	[290] Searches for rare Higgs boson decays (CMS)	DONATO, Silvio
18:12	[293] Searches for Higgs invisible (CMS)	MILOSEVIC, Vukasin

# Tuesday, 27 July 2021

## T09: Higgs Physics: double-Higgs production and self-coupling (09:30 - 11:30)

-Conveners: Giovanni Marchiori; Michael Trott; meng xiao; Sarah Heim

time	[id] title	presenter
09:30	[189] Searches for Higgs boson pair production with the full LHC Run-2 dataset in ATLAS	CAIRO, Valentina
09:47	[291] Searches for non-resonant and resonant HH production at CMS	BETHANI, Agni
10:04	[608] Two-loop corrections to the Higgs trilinear coupling in classically scale-invariant theories	BRAATHEN, Johannes
10:21	[763] NLO production of HH, ZH, and ZZ by gluon fusion, in the high-energy limit	DAVIES, Joshua
10:38	[629] Machine learning augmented probes of light Yukawa couplings from Higgs pair production	ALASFAR, Lina
10:55	[1027] Higgs self-coupling measurements in the HL-LHC era: new approaches for the HH->4b final state.	PAREDES SAENZ, Santiago
11:12	[858] Large triple Higgs couplings in the 2HDM	ARCO GARCIA, Francisco

# Thursday, 29 July 2021

## **T09: Higgs Physics: Prospects - part 1 (09:30 - 11:30)**

-Conveners: Michael Trott; Sarah Heim; Giovanni Marchiori; meng xiao

time	[id] title	presenter
09:30	[486] Prospects of non-resonant and resonant Higgs pair production at the HL-LHC	Mr ADHIKARY, Amit
09:47	[465] ILC Higgs physics potential	KAWADA, Shin-ichi
10:04	[466] Higgs invisible and rare decays at ILC	POTTER, Chris
10:21	[402] A combined fit to the Higgs Branching Ratios at ILD	KUNATH, Jonas
10:38	[840] Higgs and double Higgs production at CLIC e+e- energies up to 3 TeV	STROEM, Lars Rickard
10:55	[58] mb(mH): extracting the bottom quark mass from Higgs precision measurements	VOS, Marcel
11:12	[1107] Higgs measurements at the Future Circular Colliders	BRAIBANT, Sylvie

## **T09: Higgs Physics: Prospects - part 2 (16:30 - 17:30)**

-Conveners: Michael Trott; meng xiao; Sarah Heim; Giovanni Marchiori

time	[id] title	presenter
16:30	[1109] Electron Yukawa from s-channel resonant Higgs production at FCC-ee	Mr D'ENTERRIA, David
16:47	[1017] Higgs physics at the LHeC and the FCC-he	KLEIN, Uta
17:04	[887] Higgs boson couplings at muon collider	BUONINCONTRI, Laura