

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 | SHELLER, 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; Giovanni Marchiori; meng xiao; Michael Trott

| 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 |