Session Program

Sep 23 – 25, 2024

Higgs Hunting 2024

Plenary

IJCLab, 200/0-Auditorium - Auditorium P. Lehmann
IJCLab Orsay (Monday) & APC Paris (Tuesday & Wednesday)

Mon, September 23

10:45 AM

Plenary: General combinations (Mass, width, CP + couplings)

Session | **Location:** IJCLab, 200/0-Auditorium - Auditorium P. Lehmann | **Convener:** Giovanni Petrucciani

10:45 – 11:00 AM **Mass, width and CP measurements - ATLAS**

Speaker
Valerie Lang

11:00 – 11:15 AM **Mass, width and CP measurements - CMS**

Speaker
Fabio Iemmi

11:15 – 11:30 AM **Coupling measurements - ATLAS**

Speaker
George Iakovidis

11:30 – 11:45 AM **Coupling measurements - CMS**

Speaker
Tiziano Bevilacqua

11:45 – 11:50 AM **Higgs combinations: 3 transparencies of comparison**

Speaker
Giovanni Petrucciani

11:50 AM – 12:30 PM **Discussion including prospects for ATLAS+CMS combinations**

12:30 PM

3:00 PM

Plenary: Higgs Self Coupling

Session | **Location:** IJCLab, 200/0-Auditorium - Auditorium P. Lehmann | **Convener:** Valentina Cairo

3:00 – 3:20 PM

Di-Higgs production and the Higgs self-coupling: Theory Introduction

Speaker
Ramona Groeber

3:20 – 3:35 PM **Higgs Self Coupling - CMS**

Speaker
Agni Bethani

3:35 – 3:50 PM **Higgs Self Coupling - ATLAS**

Speaker
Zhijun Liang

3:50 – 3:55 PM **3 transparencies of comparison**

Speaker
Valentina Cairo

4:25 PM

3:55 – 4:25 PM **Discussion including prospects for ATLAS+CMS combinations**

Tue, September 24

10:00 AM

Plenary: BSM and rare H(125) decays

Session | **Location:** APC Paris | **Convener:** Sven Heinemeyer

10:00 – 10:20 AM **Rare Higgs boson decays: Light Yukawas, FCNC, BSM, and more**

Speaker
David d' Enterria

10:20 – 10:35 AM **Search for BSM Scalar Bosons at ATLAS**

Speaker
Erich Varnes

10:35 – 10:50 AM **Additional scalar bosons - CMS (by Zoom)**

Speaker
Efe Yazgan

10:50 – 11:05 AM **BSM and rare H(125) decays - ATLAS**

Speaker
Huacheng Cai

11:05 – 11:20 AM **BSM and rare H(125) decays - CMS**

Speaker
Chen Zhou

11:20 – 11:25 AM **3 transparencies of comparison**

Speaker
Sven Heinemeyer

11:25 AM – 12:05 PM **Discussion**

12:05 PM

1:35 PM

Plenary: CMS joker talk

Session | **Location:** APC Paris | **Convener:** Djamel BOUMEDIENE

1:35 – 2:00 PM **High-precision measurement of the W boson mass at CMS**

Speaker
Andrew Gilbert

2:00 PM

3:30 PM

Plenary: ATLAS joker talk

Session | **Location:** APC Paris | **Convener:** Djamel BOUMEDIENE

3:30 – 3:55 PM

Search for a light CP-odd Higgs boson decaying into a pair of leptonically decaying tau

Speakers
Manuel Gutsche, Manuel Gutsche

3:55 PM

4:20 PM

Plenary: Effective Field Theories

Session | **Location:** APC Paris | **Convener:** Sandra Kortner

4:20 – 4:40 PM **Theory introduction to the SMEFT framework**

Speaker
Tevong You

4:40 – 4:55 PM **EFT - ATLAS (by Zoom)**

Speaker
Yicong Huang

4:55 – 5:10 PM **EFT - CMS**

Speaker
Lourdes Urda

5:10 – 5:15 PM **3 transparencies of comparison**

Speaker
Sandra Kortner

5:15 – 5:40 PM **Discussion**

5:40 PM

Wed, September 25

10:00 AM

Plenary: Higgs physics at HL-LHC

Session | **Location:** APC Paris | **Convener:** Patricia McBride

10:00 – 10:30 AM **HL-LHC collider upgrade**

Speaker
Oliver Bruning

10:30 – 10:45 AM **ATLAS Phase 2 upgrade**

Speaker
Khuram Tariq

10:45 – 11:00 AM **CMS Phase 2 upgrade**

Speaker
Federico De Guio

11:00 – 11:10 AM **3 transparencies of comparison**

Speaker
Patricia McBride

11:10 – 11:35 AM **Discussion**

11:35 AM – 12:05 PM **Theory prospects for HL-LHC**

Speaker
Yevgeny Kats

12:05 – 12:20 PM **New analysis methods and physics prospects for HL-LHC - ATLAS**

Speaker
Sam Van Stroud

12:20 – 12:35 PM **New analysis methods and physics prospects for HL-LHC - CMS**

Speaker
Maxime GOUZEVITCH

12:35 – 12:45 PM **3 transparencies of comparison**

Speaker
Patricia McBride

12:45 – 1:10 PM **Discussion**

1:10 PM

3:20 PM

Plenary: Concluding talks

Session | **Location:** APC Paris | **Convener:** Rosy Nikolaidou

3:20 – 4:05 PM **Theory concluding talk**

Speaker
Kirill Melnikov

4:05 – 4:50 PM **Experimental concluding talk**

Speaker
Kerstin Tackmann

4:50 PM