

# **Higgs Hunting 2021**

## **Report of Contributions**

Contribution ID: **32**

Type: **not specified**

## Coffee break

Contribution ID: 45

Type: **not specified**

## **Prelude by the organizers**

*Monday, September 12, 2022 10:25 AM (5 minutes)*

### **Summary**

**Session Classification:** Chair: P. Sphicas (CERN & Athens)

Contribution ID: 49

Type: **not specified**

## Higgs and CP violation

*Monday, September 12, 2022 4:35 PM (30 minutes)*

### Summary

**Presenter:** S.GORI (UC, SANTA CRUZ)

**Session Classification:** Chair : H. Haber (UC Santa Cruz)

Contribution ID: 59

Type: **not specified**

## **ATLAS joker talk : Recent result on HH bb tautau analysis**

*Wednesday, September 14, 2022 10:30 AM (25 minutes)*

### **Summary**

**Presenters:** T.LENZ (BONN); Dr LENZ, Tatjana (Bonn)

**Session Classification:** Chair: V. Martinez Outschoorn (U. of Massachusetts, Amherst)

Contribution ID: 78

Type: **not specified**

## Higgs report from Snowmass

*Wednesday, September 14, 2022 2:25 PM (30 minutes)*

### Summary

**Presenter:** Dr OJALVO, Isobel (Princeton)

**Session Classification:** Chair: R. Nikolaidou (IRFU Saclay)

Contribution ID: **89**

Type: **not specified**

## **Young Scientist Forum Part 1 (2 talks)**

*Monday, September 12, 2022 11:15 AM (30 minutes)*

### **Summary**

**Presenter:** PELLEN, Mathieu (University of Freiburg)

**Session Classification:** Chair: P. Sphicas (CERN & Athens)

Contribution ID: **90**

Type: **not specified**

## **ATLAS CMS H(125) boson decays results**

*Monday, September 12, 2022 11:45 AM (1h 5m)*

### **Summary**

**Presenters:** ERRICO, Filippo; G.MARCHIORI (APC, PARIS); MARCHIORI, Giovanni (APC CNRS/IN2P3); SPH-ICAS, Paraskevas (CERN/NKUA)

**Session Classification:** Chair: P. Sphicas (CERN & Athens)



Contribution ID: **91**

Type: **not specified**

## **Young scientist forum part 2 (2 talks)**

*Monday, September 12, 2022 2:30 PM (30 minutes)*

### **Summary**

**Presenters:** L.MANTANI (UC LOUVAIN); S.FERRARIO RAVASIO (OXFORD)

**Session Classification:** Chair: A. Gritsan (JHU)

Contribution ID: 92

Type: **not specified**

## **CMS ATLAS H(125) fermion decays results (including tth)**

*Monday, September 12, 2022 3:00 PM (1h 5m)*

### **Summary**

**Presenters:** GRITSAN, Andrei (JHU); LE BIHAN, Anne-Catherine (IPHC - CNRS)

**Session Classification:** Chair: A. Gritsan (JHU)

Contribution ID: 93

Type: **not specified**

## Young Scientist Forum part 3 (4 Talks)

*Monday, September 12, 2022 5:05 PM (1 hour)*

### Summary

**Presenters:** M.MIRONOVA (OXFORD); R.HAYES (VANCOUVER, UBC); R.SCHMIEDER (INST. FÜR EXP. KERNPHYSIK); SCHMIEDER, Ralf; T.TONG (AMSTERDAM)

**Session Classification:** Chair : H. Haber (UC Santa Cruz)

Contribution ID: 94

Type: **not specified**

## **The LHC Timeline: A Personal Recollection (1980-2012)**

*Monday, September 12, 2022 6:05 PM (55 minutes)*

**Presenter:** L.MAIANI (ROME)

**Session Classification:** Chair : H. Haber (UC Santa Cruz)

Contribution ID: 95

Type: **not specified**

## Young Scientist Forum part 4 (2 Talks)

*Tuesday, September 13, 2022 10:30 AM (30 minutes)*

### Summary

**Presenters:** A.D.LOELIGER (WISCONSIN); A.SALVADOR (BARCELONA); SALVADOR SALAS, Adrian (IFAE BIST Barcelona)

**Session Classification:** Chair: S. Heinemeyer (IFT Madrid)

Contribution ID: 96

Type: **not specified**

## **ATLAS CMS BSM and rare H(125) - including Hcc Hnunu decays**

*Tuesday, September 13, 2022 11:00 AM (1h 40m)*

### **Summary**

**Presenters:** A.ATTIKIS (UNIV. OF CYPRUS); A.MILIC (TORONTO); ATTIKIS, Alexandros; Dr LI, Ke (University of Washington); HEINEMEYER, Sven (IFT/IFCA (CSIC))

**Session Classification:** Chair: S. Heinemeyer (IFT Madrid)

Contribution ID: 97

Type: **not specified**

## **CMS joker talk : Di-Higgs searches with b quarks**

*Tuesday, September 13, 2022 2:20 PM (25 minutes)*

### **Summary**

**Presenters:** GOUSKOS, Loukas (CERN); GOUSKOS, Loukas (CERN)

**Session Classification:** Chair: A-M. Magnan (Imperial College)

Contribution ID: 98

Type: **not specified**

## Vector Boson Scattering

*Tuesday, September 13, 2022 2:45 PM (1h 5m)*

### Summary

**Presenters:** A.VAGNERINI (UNIV. OF TURIN & INFN); MAGNAN, Anne-Marie (Imperial College (GB)); N.LORENZO MARTINEZ (LAPP, ANNECY); LORENZO MARTINEZ, Narei

**Session Classification:** Chair: A-M. Magnan (Imperial College)



Contribution ID: 99

Type: **not specified**

## Young Scientist Forum part 5 (3 Talks)

*Tuesday, September 13, 2022 4:20 PM (45 minutes)*

### Summary

**Presenters:** ZULIANI, Davide (Padova); J.MICHEL (MIT); MICHEL, Johannes (MIT Center for Theoretical Physics); MICHEL, Johannes (MIT Center for Theoretical Physics); M.RAMOS (LISBON)

**Session Classification:** Chair: K. Koeneke (Freiburg)

Contribution ID: **100**

Type: **not specified**

## **CMS ATLAS general H combination**

*Tuesday, September 13, 2022 5:05 PM (1h 5m)*

### **Summary**

**Presenters:** C.ZHOU; KÖNEKE, Karsten (University of Freiburg); M.BONANOMI (LLR, ECOLE POLYTECH., IN2P3-CNRS); BONANOMI, Matteo (LLR, École Polytechnique)

**Session Classification:** Chair: K. Koenke (Freiburg)

Contribution ID: **101**

Type: **not specified**

## **The Once and Future Higgs**

*Tuesday, September 13, 2022 6:10 PM (40 minutes)*

**Presenter:** N.CRAIG (UC, SANTA BARBARA)

**Session Classification:** Chair: K. Koeneke (Freiburg)

Contribution ID: **102**

Type: **not specified**

## **Young Scientist Forum part 6 (3 Talks)**

*Wednesday, September 14, 2022 10:55 AM (45 minutes)*

### **Summary**

**Presenters:** D.GUERRERO IBARRA (UNIV.OF FLORIDA); P.KUMAR SIDDIREDY (UC SANTA BARBARA); SIDDIREDY, Prasanna (UC Santa Barbara); R.HULSKEN (GRENOBLE)

**Session Classification:** Chair: V. Martinez Outschoorn (U. of Massachusetts, Amherst)

Contribution ID: **103**

Type: **not specified**

## **ATLAS CMS HH (results)**

*Wednesday, September 14, 2022 11:40 AM (1h 5m)*

### **Summary**

**Presenters:** A.CAPPATI (LLR, ECOLE POLYTECH., IN2P3-CNRS); CAPPATI, Alessandra (LLR); P.BOKAN (DESY)

**Session Classification:** Chair: V. Martinez Outschoorn (U. of Massachusetts, Amherst)

Contribution ID: **104**

Type: **not specified**

## **Theory concluding talk**

*Wednesday, September 14, 2022 2:55 PM (45 minutes)*

### **Summary**

**Presenters:** L.REINA (FLORIDA); L.REINA (FLORIDA)

**Session Classification:** Chair: R. Nikolaidou (IRFU Saclay)

Contribution ID: **105**

Type: **not specified**

## **Experimental concluding talk**

*Wednesday, September 14, 2022 3:40 PM (45 minutes)*

### **Summary**

**Presenters:** P.MERIDIANI (ROMA); P.MERIDIANI (ROMA); MERIDIANI, Paolo

**Session Classification:** Chair: R. Nikolaidou (IRFU Saclay)

Contribution ID: **106**

Type: **not specified**

## **Theory Higgs and diHiggs production**

*Monday, September 12, 2022 10:30 AM (45 minutes)*

### **Summary**

**Presenter:** T.PLEHN (HEIDELBERG)

**Session Classification:** Chair: P. Sphicas (CERN & Athens)



Contribution ID: **107**

Type: **not specified**

## **Prelude by the organizers**

*Monday, September 12, 2022 2:25 PM (5 minutes)*

**Session Classification:** Chair: A. Gritsan (JHU)

Contribution ID: **108**

Type: **not specified**

## **Prelude by the organizers**

*Monday, September 12, 2022 4:30 PM (5 minutes)*

**Session Classification:** Chair : H. Haber (UC Santa Cruz)

Contribution ID: **109**

Type: **not specified**

## **Prelude by the organizers**

*Tuesday, September 13, 2022 10:25 AM (5 minutes)*

**Session Classification:** Chair: S. Heinemeyer (IFT Madrid)

Contribution ID: 111

Type: **not specified**

## **Prelude by the organizers**

*Tuesday, September 13, 2022 4:15 PM (5 minutes)*

**Session Classification:** Chair: K. Koeneke (Freiburg)

Contribution ID: 112

Type: **not specified**

## **Prelude by the organizers**

*Wednesday, September 14, 2022 10:25 AM (5 minutes)*

**Session Classification:** Chair: V. Martinez Outschoorn (U. of Massachusetts, Amherst)

Contribution ID: **113**

Type: **not specified**

## **Prelude by the organizers**

*Wednesday, September 14, 2022 2:20 PM (5 minutes)*

**Session Classification:** Chair: R. Nikolaidou (IRFU Saclay)

Contribution ID: 114

Type: **not specified**

## **Prelude by the organizers**

*Tuesday, September 13, 2022 2:15 PM (5 minutes)*

**Session Classification:** Chair: A-M. Magnan (Imperial College)