

Session Program

16-18 Oct 2019

**The 16th Workshop of the LHC Higgs Cross
Section Working Group**

Parallel Sessions

CERN, 503/1-001 - Council Chamber

Thursday 17 October

14:30

Parallel Sessions: WG-2

Session | Location: CERN, 40/S2-B01 - Salle Bohr

14:30-15:00 **EFT parameterisation and Higgs total width in SMEFT**

Speaker
Ilaria Brivio

15:00-15:10 **EFT parameterisation of STXS (CMS)**

Speaker
Jonathon Mark Langford

15:10-15:20 **EFT parameterisation of STXS (ATLAS)**

Speaker
Ana Rosario Cueto Gomez

15:20-15:30 **Discussion**

15:30-15:50 **EFT parameterisation tools within ATLAS/CMS**

Speaker
Andrew Gilbert

15:50

14:30

Parallel Sessions: joint WG3 - HH

Session | Location: CERN, 42/3-032

14:30-14:45 **Overview of resonant HH searches at ATLAS and CMS**

Speaker
Daniel Guerrero

14:45-15:00 **C2HDM Higgs pair production**

Speaker
Fontes Duarte

15:00-15:15 **Double Higgs final states in Singlet Extensions of the SM [vidyo]**

Speaker
Milada Margarete Mühleitner

15:15-15:30 **HH production for scalar Higgs sector extensions [vidyo]**

Speaker
Christoph Peter Englert

15:30-15:45

2HDM+S and the NMSSM: benchmark suggestions for HH production [vidyo]

Speakers
Nausheen Shah, Sebastian Baum

15:45

15:00

Parallel Sessions: WG-1 (parton shower)

Session | Location: CERN, 60/6-015 - Room Georges Charpak (Room F)

15:00-15:20

A fragmentation-based study of heavy quark production**Speaker**

Marco Zaro

15:25-15:45

ATLAS/CMS comparisons for the main ttH/tH backgrounds**Speaker**

Kirill Grevtsov

15:50-16:05

Parton shower studies in WG1-VBF**Speaker**

Yacine Haddad

16:10-16:25

Summary of Les Houches studies**Speaker**

Carlo Enrico Pandini

16:50

16:00

Parallel Sessions: WG-3

Session | Location: CERN, 42/3-032

16:00-17:00

Discussion on the use of HXS4BSM numbers (WG3 + VBF)**Speaker**

Dermot Anthony Moran

17:15-18:30

WG3 Discussion: Recommendations for the presentation of auxiliary information in the Run-2 legacy papers

19:00

16:15

Parallel Sessions: joint WG2 - HH

Session | Location: CERN, 40/S2-B01 - Salle Bohr

16:15-16:35

Experimental challenges in H and HH EFT fits**Speaker**

Francesco Micheli

16:35-16:55

EFT fits and self-coupling extraction in H and HH: theory overview**Speaker**

Eleni Vryonidou

17:30

17:30

Parallel Sessions: WG2

Session | Location: CERN, 40/S2-B01 - Salle Bohr

17:30-17:50

Motivation for differential observables - follow-up**Speakers**

Frank Tackmann, Frank Tackmann

17:50-18:30

Extending STXS with final state information**Speakers**

Michael Duehrssen-Debling, Nicolas Berger

18:30

17:45

Parallel Sessions: HH

Session | Location: CERN, 60/6-015 - Room Georges Charpak (Room F)

17:45-18:05 **Overview of HH MC generators in ATLAS and CMS**

Speaker

Xiaohu Sun

18:45

18:05-18:45 **Discussion**