Session Program
18-22 Oct 2021



Higgs 2021

Plenary

Monday 18 October

09:25 **Plenary: Opening** Session | Convener: Viviana Cavaliere 09:25-09:55 "New Higgs results from ATLAS" (20+10) Speaker Marc Escalier 09:55-10:25 "New Higgs results from CMS" (20+10) Speaker Keti Kaadze "Higgs physics in the precision era" (25+10) 10:25-11:00 **Speakers** Gavin Salam, Gavin Salam 11:00 11:30 Plenary: Opening 2 Session | Convener: Maria Cepeda 11:30-12:05 "BSM Higgs theory overview" (25+10) Speaker **Scott Thomas** 12:05-12:25 ATLAS: Wildcard (15+5) Speaker **Ouentin Buat** 12:25-12:45 CMS: Wildcard (15+5) Speaker Nicholas Wardle 12:45 12:45 Plenary: Young Scientist talks Session | Convener: Marc-Andre Pleier 12:45-12:55 More light on Higgs flavor at the LHC: Higgs couplings to light quarks through h+γ production Speaker Jose Manuel Cano 13:00-13:10 Fully differential Higgs production in VBF at NNLO, including the decay of the **Higgs boson Speaker** Konstantin Asteriadis 13:15

Tuesday 19 October

09:00

Plenary: Properties and Precision

Session | Convener: Stefano Augusto Pozzorini

09:00-09:30 ATLAS+CMS: "SM Higgs-boson properties: mass, width, CP" (20+10)

Speaker

Savvas Kyriacou

09:30-10:00 Recent progress in precision calculations" (20+10)

Speaker

Alexander Yohei Huss

10:00-10:30

ATLAS+CMS: "Higgs-boson differential, fiducial, and total cross section measurements" (20+10)

Speaker

Edward Scott

10:30-11:00

ATLAS+CMS: "Higgs-boson couplings and simplified template cross section measurements" (20+10)

Speaker

Rachel Jordan Hyneman

11:00 11:30

Plenary: Flavor

Session | Convener: Patrick Meade

11:30-12:00 ATLAS+CMS: "Quark Yukawa interactions" (20+10)

Speaker

Loukas Gouskos

12:00-12:30 ATLAS+CMS: "Lepton Yukawa interactions" (20+10)

Speaker

Martina Laura Ojeda

12:30-13:00 Higgs Flavor in light of anomalies" (20+10)

Speaker

Clara Murgui

13:00

Wednesday 20 October

10:30 Plenary: DiHiggs Session | Convener: Elizabeth Brost 10:30-11:00 ATLAS: "Di-Higgs results - twice the Higgs, twice the fun" (20+10) Speaker Marco Valente 11:00-11:30 CMS: "Di-Higgs results - twice the Higgs, twice the fun" (20+10) Speaker Petar Maksimovic "BSM targets for Di-Higgs searches" (20+10) 11:30-12:00 **Speaker** Daniel Egana-Ugrinovic 12:00-12:30 "SM theory for HH: signal and background" (20+10) Speaker Javier Mazzitelli 12:30 12:30 Plenary: Young Scientist talks Session | Convener: Paul Grannis 12:30-12:40 Search for non-resonant di-Higgs production in the bbyy final state at 13 TeV with the ATLAS experiment **Speaker** Jannicke Pearkes 12:40-12:50 Higgs Physics at a Muon Collider Speaker Luca Giambastiani 12:50-13:00 Charm-jet tagging at the LHCb experiment Speaker Thomas Boettcher 13:00 14:30 Plenary: BSM Session | Convener: Luca Cadamuro 14:30-15:00 ATLAS+CMS: "Exotic and invisible decays of the observed Higgs boson" (20+10) Speaker

ATLAS+CMS: "Searches for additional scalar or Higgs-like particles" (20+10)

Scott Snyder

15:00-15:30

Speaker Fabio Ravera "BSM Higgs: new states, exotic and invisible decays" (20+10) 15:30-16:00 Speaker Zhen Liu 16:00

Thursday 21 October

09:00 Plenary: EFT Session | Convener: Andrei Gritsan 09:00-09:30 Is SMEFT enough? Speaker Tim Cohen 09:30-10:00 "EFT tools and global fits" (20+10) Speaker Ilaria Brivio 10:00-10:30 ATLAS+CMS: "EFT results from Higgs and beyond" (20+10) Speaker Marco Battaglia 10:30 11:00 Plenary: Theory input & experimental tools Session | Convener: Michelangelo Mangano 11:00-11:40 ATLAS+CMS: "Modelling of signal and background processes: where is a better understanding needed to make progress" (15+15+10) **Speakers** Adinda De Wit, Nicolas Morange "MC modelling of Higgs signals and backgrounds" (20+10) 11:40-12:10 Speaker Frank Siegert 12:10-12:40 "Parton Showers" (20+10) Speaker Simon Platzer 12:40 12:40 Plenary: Young Scientist talks Session | Convener: John David Hobbs Strange Quark as a Probe for New Physics in the Higgs Sector 12:45-12:55 Speaker Matthew Basso 12:55-13:05 Measurements of Higgs boson production cross sections in the H -> $\tau\tau$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector Speaker Kristina Mihule 13:05

Friday 22 October

09:00



11:00