

Higgs Couplings 2016

Wednesday 9 November 2016

Plenary: Status of Higgs at LHC I - Kavli Auditorium (09:00 - 10:20)

-Conveners: Claude Charlot

time	[id] title	presenter
09:00	[2] Higgs to $\gamma\gamma$ (ATLAS, CMS)	
	- [1] ATLAS	MELLADO GARCIA, Bruce
	- [2] CMS	CORPE, Louie Dartmoor
	- [3] Common discussion	
09:40	[5] Higgs to VV (ATLAS, CMS)	
	- [1] ATLAS	ZAMBITO, Stefano
	- [2] CMS	KUMAR, Arun
	- [3] Common discussion	

Plenary: Higgs Production Theory - Kavli Auditorium (10:50 - 12:30)

-Conveners: Stefan Dittmaier

time	[id] title	presenter
10:50	[8] Higgs production through gluon fusion	GEHRMANN, Thomas
11:30	[9] Higgs production through Weak Boson Fusion	ZEPPENFELD, Dieter
12:00	[10] Monte Carlo simulation & uncertainties	SCHOENHERR, Marek

Plenary: Status of Higgs at LHC II - Kavli Auditorium (14:00 - 16:20)

-Conveners: Marumi Kado

time	[id] title	presenter
14:00	[11] $h \rightarrow \tau\tau$ (ATLAS, CMS)	
	- [1] ATLAS	DAVIDEK, Tomas
	- [2] CMS	LANE, Rebecca Charlotte
	- [3] Common discussion	
14:40	[12] $h \rightarrow b\bar{b}$ (ATLAS, CMS)	
	- [1] ATLAS	MUELLER, Felix
	- [2] CMS	PERROZZI, Luca
	- [3] Common discussion	
15:20	[13] Mass and width combination (ATLAS+CMS)	COUDERC, Fabrice
15:50	[14] Combination fit for couplings (ATLAS+CMS)	GUINDON, Stefan

Plenary: Searches for heavy Higgs states - Kavli Auditorium (16:50 - 18:40)

-Conveners: Sridhara Dasu

time	[id] title	presenter
16:50	[15] Theory perspective on heavy Higgs	CRAIG, Nathaniel
17:20	[16] Searches for Heavy Higgs - MSSM searches (ATLAS, CMS)	
	- [1] ATLAS	FERRARI, Pamela
	- [2] CMS	MOHAMMADI, Abdollah
	- [3] Common discussion	
18:00	[17] Searches for Heavy Higgs - non MSSM searches (ATLAS, CMS)	
	- [1] ATLAS	SCHAFFER, R D
	- [2] CMS	CHERTOK, Maxwell
	- [3] Common discussion	

Thursday 10 November 2016

Plenary: Effective Field Theory for Higgs - Kavli Auditorium (08:30 - 10:30)

-Conveners: Chris Hays

time	[id] title	presenter
08:30	[18] SM EFT & application to Higgs	MANOHAR, Aneesh Vasant
09:00	[19] EFT analysis of off-shell and boosted Higgs production	CAOLA, Fabrizio
09:30	[20] Joint analysis of Higgs and W,Z in EFT	DAWSON, Sara Lynn
10:00	[21] Off-shell Higgs measurements (ATLAS+CMS)	BRUN, Hugues Louis

Plenary: Parametrization for Higgs precision measurements - Kavli Auditorium (11:00 - 12:45)

-Conveners: Giampiero Passarino

time	[id] title	presenter
11:00	[22] Direct EFT approach	SANZ, Veronica
11:30	[23] Pseudo-Observables	ISIDORI, Gino
12:00	[24] Round-table discussion on Exp/TH considerations for precision measurements	KLUTE, Markus KADO, Marumi

Plenary: The tth process - Kavli Auditorium (13:55 - 15:55)

-Conveners: Peter Onyisi

time	[id] title	presenter
13:55	[25] SM tth production, signal & backgrounds	REINA, Laura
14:25	[26] Searches for ttH, H to bb (ATLAS, CMS)	
	- [1] ATLAS	ENARI, Yuji
	- [2] CMS	KASIECZKA, Gregor
	- [3] Common discussion	
15:10	[27] Searches for ttH, di-photon and multi-lepton channels (ATLAS, CMS)	
	- [1] ATLAS	SOPCZAK, Andre
	- [2] CMS	GHOSH, Saranya Samik
	- [3] Common discussion	

Friday 11 November 2016

Plenary: Conventional and exotic Higgs decays - Kavli Auditorium (08:30 - 10:30)

-Conveners: **Tilman Plehn**

time	[id] title	presenter
08:30	[28] $h \rightarrow \mu\mu$, $h \rightarrow \tau\mu$ and $t \rightarrow Hq$ (ATLAS+CMS)	OSPANOV, Rustem
09:00	[29] Flavor-violating Higgs decays	SOREQ, Yotam
09:30	[30] $h \rightarrow$ invisible and $h \rightarrow$ exotics (ATLAS+CMS)	DASU, Sridhara
10:00	[31] $h \rightarrow$ exotics theory	GORI, Stefania

Plenary: Higgs decay in SM vs BSM - Kavli Auditorium (11:00 - 12:30)

-Conveners: **Joey Huston**

time	[id] title	presenter
11:00	[32] SM precision predictions for Higgs partial widths	SPIRA, Michael
11:30	[33] BSM decays theory overview	YU, Felix
12:00	[34] SUSY and the alignment limit	HABER, Howard

Plenary: BSM processes involving Higgs - Kavli Auditorium (14:00 - 16:00)

-Conveners: **Maxim Perelstein**

time	[id] title	presenter
14:00	[38] Composite Higgs	FALKOWSKI, Adam
14:30	[39] Higgs association with SUSY and dark matter	TAIT, Tim M.P.
15:00	[40] Higgs association with VV strong interactions	RATTAZZI, Riccardo
15:30	[41] BSM searches using a Higgs or di-Higgs tag (ATLAS+CMS)	ETZION, Erez

Saturday 12 November 2016

Plenary: Triple-Higgs couplings - Kavli Auditorium (09:00 - 10:30)

-Conveners: **Gregorio Bernardi**

time	[id] title	presenter
09:00	[35] What will we learn from double Higgs production?	PERELSTEIN, Maxim
09:30	[36] Triple-Higgs coupling measurements at future pp colliders	KLUTE, Markus
10:00	[37] Triple-Higgs coupling measurements at future e+e- colliders	TANABE, Tomohiko

Plenary: Summary - Kavli Auditorium (11:00 - 12:20)

-Conveners: **Michael Peskin**

time	[id] title	presenter
11:00	[42] Higgs program and detector implications for HL-LHC	PETERSEN, Brian
11:30	[43] State of the Higgs address	MANGANO, Michelangelo
12:15	[45] Higgs Couplings 2017 - Heidelberg	PLEHN, Tilman