



# EPS-HEP 2017

## Thursday, July 6, 2017

### Higgs and new physics: Higgs - Sala Perla (9:00 AM - 1:00 PM)

-Conveners: Ivica Puljak

time	[id] title	presenter
9:00 AM	[327] Measurement of the Higgs boson couplings and properties in the diphoton, ZZ and WW decay channels using the ATLAS detector	GUPTA, Ruchi
9:15 AM	[268] Measurement of properties of Higgs boson decaying to pairs of W and Z bosons at 13 TeV with the CMS experiment	KIANI, Muhammad Bilal
9:30 AM	[273] The Latest CMS results on Higgs boson decaying to two photons with 13 TeV data	PLANER, Michael
9:45 AM	[326] Measurement of the SM Higgs boson mass in the diphoton and 4l decay channels using the ATLAS detector	POTAMIANOS, Karolos
10:00 AM	[272] Inclusive search for boosted Higgs bosons using $H \rightarrow b\bar{b}$ decays with the CMS experiment	VERNIERI, Caterina
10:15 AM	[520] Probing light-quarks Yukawa couplings & new physics in Higgs + jet(b-jet) studies	Dr BAR-SHALOM, Shaouly
10:30 AM	[270] Results for SM Higgs decaying to bottom quarks or tau pairs	DE GRUTTOLA, Michele
10:45 AM	[328] Measurement of fermionic couplings of the SM Higgs boson using the $b\bar{b}$ , $\tau\tau$ and $\mu\mu$ decay channels with the ATLAS detector	WANG, Song-Ming
11:00 AM	Coffee break	
11:30 AM	[330] Determination of the Higgs boson properties with the ATLAS detector.	VAZQUEZ SCHROEDER, Tamara
11:45 AM	[263] Search for rare and exotic Higgs boson decays at CMS	DEV, Nabarun
12:15 PM	[335] Search for non-standard, rare or invisible decays of the Higgs boson with the ATLAS detector.	THOMPSON, Paul
12:30 PM	[332] Search of a high mass neutral Higgs boson in fermion final states with the ATLAS detector.	BARONE, Gaetano
12:45 PM	[260] Latest results on searches for MSSM Higgs Search and Beyond at CMS	ASAWATANGTRAKULDEE, Chayanit

### Higgs and new physics: Higgs - Room Welles (2:30 PM - 6:30 PM)

-Conveners: Giuseppe Degrossi

time	[id] title	presenter
2:30 PM	[324] Charged Higgs production with a W boson or a top quark	KIDONAKIS, Nikolaos
2:45 PM	[333] Charged Higgs boson searches with the ATLAS detector	BERGEAAS KUUTMANN, Elin
3:00 PM	[25] Standard Model Extended by a Heavy Singlet: Linear vs. Nonlinear EFT	CELIS, Alejandro
3:15 PM	[262] Search for a new spin-zero resonance in diboson channels at 13 TeV	MAGITTERI, Alessio
3:30 PM	[331] Search for high mass bosonic resonances with the ATLAS detector	CARMINATI, Leonardo

3:45 PM	[999] Flavour Physics meets Heavy Higgs Searches	PAUL, Ayan
4:00 PM	Coffee break	
4:30 PM	[1007] Precision Calculations to Top- and Bottom-Yukawa Couplings within the SM and BSM	Dr MIHAILA, Luminita MIHAILA, Luminita
4:45 PM	[741] Two-Higgs-doublet model fits with HEPfit	EBERHARDT, Otto
5:00 PM	[595] Tracks of resonances in electroweak effective Lagrangians	ROSELL, Ignasi
5:15 PM	[901] Search for Higgs-like particle produced in association with $b\bar{b}$ quarks and measurement of $\sigma(Z \rightarrow b\bar{b})$ cross section at CDF II	MICHIELIN, Emanuele
5:30 PM	[854] Searching for massless Dark Photons at LHC via Higgs boson production	Dr MELE, Barbara
5:45 PM	[337] ATLAS Higgs and supersymmetry physics prospects at the high luminosity LHC	VENTURI, Nicola
6:00 PM	[834] Higgs measurements at the HL-LHC with CMS	DE WIT, Adinda
6:15 PM	[639] Sensitivity to anomalous $VVH$ couplings at the ILC	Mr OGAWA, Tomohisa

### **Higgs and new physics: Supersymmetry - Sala Perla (2:30 PM - 6:30 PM)**

-Conveners: Marie-Helene Genest

time	[id] title	presenter
2:30 PM	[446] SUSY scenarios according to EWSB	DERMISEK, Radovan
3:00 PM	[138] Searches for supersymmetry via strong production in fully hadronic final states at CMS	SCHOENENBERGER, Myriam
3:15 PM	[234] Inclusive searches for squarks and gluinos in final states with no leptons with the ATLAS detector	DUCU, Otilia Anamaria
3:30 PM	[139] Searches for supersymmetry via strong production in events with one or more leptons at CMS	SCHOMAKERS, Christian
3:45 PM	[235] Inclusive searches for squarks and gluinos in final states with leptons with the ATLAS detector	POVEDA TORRES, Ximo
4:00 PM	Coffee break	
4:30 PM	[82] Compressed SUSY searches with the Recursive Jigsaw Reconstruction	JACKSON, Paul Douglas
4:45 PM	[241] Search for compressed SUSY scenarios with the ATLAS detector	MAURER, Julien
5:00 PM	[144] Search for supersymmetry with compressed mass spectra or decays via Higgs bosons at CMS	HEIDEGGER, Constantin
5:15 PM	[94] Supersymmetry signals in $Z'$ decays	CORCELLA, Gennaro
5:30 PM	[141] Searches for production of third generation squarks at CMS	SUAREZ, Indara
5:45 PM	[236] Searches for direct pair production of third generation squarks in final states with no leptons with the ATLAS detector	LARI, Tommaso
6:00 PM	[237] Searches for direct pair production of third generation squarks in final states with leptons with the ATLAS detector	PANI, Priscilla
6:15 PM	[123] Soft gluon resummation for associated gluino-gaugino production at the LHC	KLASEN, Michael

# Friday, July 7, 2017

## Higgs and new physics: Exotics - Room Welles (9:00 AM - 1:00 PM)

-Conveners: Marie-Helene Genest

time	[id] title	presenter
9:00 AM	[831] Implications of Vector Boson Scattering Unitarity in Composite Higgs Models	BUARQUE FRANZOSI, Diogo
9:15 AM	[226] Search for New Phenomena in Dijet Events with the ATLAS Detector at $\sqrt{s} = 13$ TeV	PICAZIO, Attilio
9:30 AM	[147] Searches for new physics in dijet and multijet final states	PREIATO, Federico
9:45 AM	[541] Search for contact interactions in inclusive ep scattering at HERA	WICHMANN, Katarzyna
10:00 AM	[581] Low-mass di-muon searches with the LHCb detector	LANGENBRUCH, Christoph Michael
10:15 AM	[146] Searches for non-resonant new phenomena in final states with leptons and photons	GONZALEZ LOPEZ, Oscar
10:30 AM	[229] Searches for new phenomena in leptonic final states using the ATLAS detector	ARTONI, Giacomo
10:45 AM	[145] Searches for new heavy resonances in final states with leptons and photons	RADBURN-SMITH, Benjamin
11:00 AM	Coffee break	
11:30 AM	[932] Revealing BSM Composite Dynamics Through Topological Interactions at Future Colliders	VIGNAROLI, Natascia
11:45 AM	[374] The W and Z boson spin observables as messengers of New Physics at LHC	Prof. BERNABEU, José
12:00 PM	[110] Electroweak resonances in HEFT	DOBADO, Antonio
12:15 PM	[872] Limits on Torsion parameters from $t\bar{t}$ production at LHC	NEPOMUCENO, Andre
12:30 PM	[540] Limits on the effective quark radius from inclusive ep scattering at HERA	TURKOT, Oleksii TURKOT, Oleksii
12:45 PM	[661] BSM physics at energy-frontier lepton-hadron colliders	WANG, Kechen

## Higgs and new physics: Higgs - Sala Perla (9:00 AM - 1:00 PM)

-Conveners: Tamara Vazquez Schroeder; Michael Duehrssen-Debling

time	[id] title	presenter
9:00 AM	[988] EFT probes of new physics	ELIAS MIRO, Joan
9:30 AM	[264] Measurement of the Higgs boson differential and fiducial cross sections at CMS	TAVOLARO, Vittorio Raoul
9:45 AM	[325] Measurement of fiducial and differential cross sections of the SM Higgs boson in the diphoton and $4l$ decay channels using the ATLAS detector	GABRIELLI, Andrea
10:00 AM	[844] Higgs decay into four leptons in the presence of dimension-six operators	Dr BOSELLI, Stefano
10:15 AM	[267] Searches for HH production at 13 TeV with the CMS detector	DALL'OSSO, Martino
10:30 AM	[334] Search for di-Higgs production with the ATLAS detector	DAVEY, Will

10:45 AM	[592] Probing the Higgs trilinear self-coupling via single Higgs production and precision physics.	DEGRASSI, Giuseppe
11:00 AM	Coffee break	
11:30 AM	[808] Improving predictions for associated $t\bar{t}H$ production at the LHC: soft gluon resummation through NNLL accuracy	STEBEL, Tomasz
11:45 AM	[261] Latest CMS results on Higgs boson production in association with top quarks	GHOSH, Saranya Samik
12:00 PM	[329] Search for the SM Higgs boson in the $t\bar{t}H$ production channel using the ATLAS detector.	KATZY, Judith
12:15 PM	[265] Latest CMS results on $t\bar{t}H(bb)$ production	SALERNO, Daniel
12:30 PM	[266] Searches for associated production of the Higgs boson with a single top at 13 TeV at CMS	DAS, Pallabi
12:45 PM	[271] Search for a new Higgs boson-like low-mass resonance in the diphoton final state in pp collisions in CMS	FINCO, Linda

### **Higgs and new physics: Future Colliders - Sala Perla (2:30 PM - 4:00 PM)**

-Conveners: Paolo Meridiani

time	[id] title	presenter
2:30 PM	[256] The Potential of the ILC for Discovering New Particles	LIST, Jenny
2:45 PM	[401] Higgs and BSM physics at CLIC	MILUTINOVIC-DUMBELOVIC, Gordana
3:00 PM	[799] Probing Chirality of Top-Higgs FCNC Couplings at Linear Colliders	Prof. MELIC, Blazenka MELIC, Blazenka MELIC, Blazenka MELIC, Blazenka
3:15 PM	[257] Precision Higgs Measurements at the 250 GeV ILC	BARKLOW, Tim
3:30 PM	[304] Higgs measurement at Future Circular Collider	BEHR, Janna Katharina
3:45 PM	[660] Higgs Physics at the LHeC and the FCC-eh	Dr WANG, Kechen

### **Higgs and new physics: Supersymmetry - Room Welles (2:30 PM - 6:30 PM)**

-Conveners: Radovan Dermisek

time	[id] title	presenter
2:30 PM	[238] Searches for electroweak production of supersymmetric gauginos and sleptons with the ATLAS detector	ZINONOS, Zinonas
2:45 PM	[143] Search for electroweak production of supersymmetry at CMS	LIU, Miaoyuan
3:00 PM	[142] Search for supersymmetry in events with photons at CMS	WEINBERG, Marc Gabriel
3:15 PM	[239] Search for R-parity violating supersymmetry with the ATLAS detector	MEHLHASE, Sascha
3:30 PM	[968] First SUSY results with GAMBIT	KVELLESTAD, Anders
3:45 PM	[788] On the Coverage of the pMSSM by Simplified Model Results	LAA, Ursula
4:00 PM	Coffee break	
4:30 PM	[336] Search for the decay of the Higgs boson into two nMSSM pseudo-scalar particles.	JANUS, Michel
4:45 PM	[552] Status and discovery prospects for light pseudoscalars in the NMSSM	BOMARK, Nils-Erik

5:00 PM	[828] Perspectives for SUSY in light of current LHC constraints	MARTINEZ SANTOS, Diego
5:15 PM	[344] Naturalness and light Higgsinos: why ILC is the right machine for SUSY discovery	Ms LEHTINEN, Suvi-Leena LEHTINEN, Suvi-Leena
5:30 PM	[399] The Fine-tuning of the Minimal Supersymmetric Standard Model: Constraints by the LHC, Future Colliders and Dark Matter searches	CARON, Sascha
5:45 PM	[117] The muon g-2 and dark matter in the MSSM at 100 TeV	TALIA, Matthew
6:00 PM	[866] Muon g-2 and dark matter in models with vector-like fermions	SESSOLO, Enrico Maria
6:15 PM	[719] Effects of Extra Yukawa Couplings and Alignment	Dr KIKUCHI, Mariko

**Higgs and new physics: Long-lived particles - Sala Perla (4:30 PM - 6:30 PM)**

-Conveners: Marie-Helene Genest

time	[id] title	presenter
4:30 PM	[90] New long-lived particles at the LHC	STOLARSKI, Daniel
5:00 PM	[12] The MoEDAL Experiment at the LHC - a New Light on the High Energy Frontier	PINFOLD, James
5:15 PM	[582] Search for long-lived particles at LHCb	LUSIANI, Alberto
5:30 PM	[151] Searches for long-lived particles and other non-conventional signatures	ADAMS, Todd
5:45 PM	[233] Search for New Physics through the Reconstruction of Challenging and Long-Lived Signatures with the ATLAS detector $\sqrt{s} = 13$ TeV	PETTERSSON, Nora Emilia
6:00 PM	[605] Search for hidden-sector particles at NA62	LANFRANCHI, Gaia
6:15 PM	[77] Search for new physics with the SHiP experiment at CERN	LANTWIN, Oliver

# Saturday, July 8, 2017

## Higgs and new physics: Exotics - Sala Perla (9:00 AM - 1:00 PM)

-Conveners: Marie-Helene Genest; ALEKSANDR AZATOV

time	[id] title	presenter
9:00 AM	[740] Status of Composite Higgs	Dr AZATOV, Aleksandr
9:30 AM	[232] ATLAS Searches for VH and HH Resonances	FISHER, Wade Cameron
9:45 AM	[132] Search for diboson resonances decaying into W, Z and H bosons at CMS	LANGE, Clemens
10:00 AM	[486] Exotic signatures of new gauge bosons	DOBRESCU, Bogdan
10:15 AM	[231] ATLAS Searches for VV/V+gamma Resonances	IORDANIDOU, Kalliopi
10:45 AM	[204] Large scale separation and hadronic resonances from a new strongly interacting sector	WITZEL, Oliver
11:00 AM	Coffee break	
11:30 AM	[228] Search for vector-like quarks	NACKENHORST, Olaf
11:45 AM	[131] Search for vector-like quarks and excited quarks at CMS	RAUCO, Giorgia
12:00 PM	[227] Search for heavy resonances decaying to top quarks	D'AURIA, Saverio
12:15 PM	[133] Search for new resonances coupling to third generation quarks at CMS	HALLER, Johannes
12:30 PM	[148] Searches for new physics in lepton+jet final states	STOVER, Marc
12:45 PM	[230] Searches for new phenomena in final states involving leptons and jets using the ATLAS detector	MASTRANDREA, Paolo