

Physics at the LHC and beyond

Tuesday 29 September 2015 - Friday 02 October 2015

DESY Hamburg
Programme

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Wednesday 30 September 2015

Particle Phenomenology : SM-Precision - Seminar room 4a (14:00-15:45)

time	title	presenter
14:00	Electroweak Corrections to Higgs-strahlung Processes at the LHC in THDM	CHENG, Taoli
14:15	Next-to-leading order electroweak corrections to $pp \rightarrow W + W - \rightarrow 4$ leptons at the LHC	SALFELDER, Lukas
14:30	NLO corrections to top-quark pair hadroproduction in association with (heavy) bosons	PAGANI, Davide
14:45	Automated NLO QCD+EW corrections for the LHC	LINDERT, Jonas
15:00	LHC physics with GoSam 2.0	GREINER, Nicolas
15:15	WW + jet: compact analytic results	ROBENS, Tania

Particle Phenomenology : Model building - Seminar room 4b (14:00-15:45)

time	title	presenter
14:00	Generating fermion masses and mixing angles in extra Higgs doublet models	SOLAGUREN-BEASCOA, Ana
14:15	$\mu \rightarrow \tau$ as an indication for S_4 flavor symmetry	SCHUMACHER, Erik
14:30	Adjoint $SU(5)$ GUT model with T_{7} flavor symmetry	CAROLINA, Arbelaez
14:45	Quantum structure of the minimal calculable unified model	MEDE, Timon
15:00	Fermion representations in GUTs: on the quest for family unification	FONSECA, Renato
15:15	Integrating in the Higgs Portal to Fermion Dark Matter	WESTHOFF, Susanne

Particle Phenomenology : SM-Precision/Resummation - Seminar room 4a (16:05-17:50)

time	title	presenter
16:05	Transverse momentum resummation in Higgs production	EBERT, Markus
16:20	Resummation of double-differential cross sections	ZEUNE, Lisa
16:35	Beyond NNLL' qT resummation with CuTe	LÜBBERT, Thomas
16:50	Higher-order corrections to (double) Higgs production	HOFF, Jens
17:05	Higgs pair production at the LHC: SM and beyond	VRYONIDOU, Eleni
17:20	Higgs Production at N3LO	HERZOG, Franz

Particle Phenomenology : Dark matter at colliders - Seminar room 4b (16:05-17:50)

time	title	presenter
16:05	Majorana Dark Matter at the LHC and IceCube -- A Simplified Models Interpretation	HEISIG, Jan
16:20	Interplay between dark matter models and LHC data	CHALA, Mikael
16:35	Lepton Jets from Radiating Dark Matter	BUSCHMANN, Malte

16:50	Coannihilating Dark Matter at the LHC	BAKER, Michael
17:05	Discovering Displaced Higgs Portal Dark Matter at the LHC	KANG, Dong Woo
17:20	Dark Matter Mono- Z Production at the LHC beyond Leading Order in the Simplified Models	WANG, Jian

Thursday 01 October 2015

Particle Phenomenology : SUSY I - Seminar room 4b (14:00-15:40)

time	title	presenter
14:00	GM2Calc - A tool for calculating the muon ($g-2$) in the MSSM	BACH, Markus
14:15	Full two-loop fermionic contributions for ($g-2$) in the Two-Higgs-Doublet Model	LANA CHERCHIGLIA, Adriano
14:30	Semi-automated two-loop calculations at the example of Higgs masses in the MSSM	PAßEHR, Sebastian
14:45	Precise predictions for Higgs-masses in the Next-to-Minimal Supersymmetric Standard Model (NMSSM)	DRECHSEL, Peter
15:00	Higgs mass in R-symmetric SUSY at one-loop level and beyond	KOTLARSKI, Wojciech
15:15	Is a light singlet within an R-symmetric SUSY model viable?	DIESSNER, Philip

Particle Phenomenology : Phenomenology - Seminar room 4a (14:00-15:40)

time	title	presenter
14:00	Symmetry restored in dibosons at the LHC?	BREHMER, Johann
14:15	Searching for new physics in Higgs to four leptons	STOLARSKI, Daniel
14:30	Effective field theory over the edge: implications for Higgs physics	LOPEZ-VAL, David
14:45	Using CheckMATE and FRITZ to set automatised LHC constraints	SCHMEIER, Daniel
15:00	SUSY Higgs Mass and Collider Signals with a Hidden Valley	NAKAI, Yuichiro
15:15	Hiding Missing Energy in Missing Energy	LIU, Jia

Particle Phenomenology : SUSY II - Seminar room 4b (16:05-17:50)

time	title	presenter
16:05	Neutral Higgs production in the MSSM with complex parameters	PATEL, Shruti
16:20	Interference effects in MSSM Higgs searches	FUCHS, Elina
16:35	ATLAS Z + MET Excess in the MSSM	TERADA, Takahiro
16:50	Scale invariant SUSY search with simplified topologies	SCHLAFFER, Matthias
17:05	Charge and Color Breaking minima in the MSSM: the bottom-up connection	HOLLIK, Wolfgang Gregor

Particle Phenomenology : QCD - Seminar room 4a (16:05-17:50)

time	title	presenter
16:05	Quark isospin asymmetry at small and large x	ALEKHIN, Sergey
16:20	Transverse momentum dependent (un)polarized gluon distributions in Higgs production	KASEMETS, Tomas
16:35	Jet angular correlation in the top quark pair production	NAKAMURA, Junya
16:50	The Matrix Element Method at next-to-leading order accuracy	MARTINI, Till

17:05	Improved Estimates for the Parameters of the Heavy Quark Expansion	HEINONEN, Johannes
17:20	PERSPECTIVE STUDY OF CHARMONIUM, EXOTICS AND BARYONS WITH CHARM AND STRANGENESS	MIKHAIL, Barabanov