GRK 2044 - Mass and symmetries after the Discovery of the Higgs particle at the LHC



10. - 12. October 2016
Schwarzwaldhotel, Gengenbach (Black Forest)





Monday, Octo	Monday, October 10th		
09.30 - 10.30	Arrival and Coffee		
10.30 -11.00	Manfredi Ronzani Recent results from the search for supersymmetry in O-Lepton final state with the ATLAS detector		
11.00 - 11.30	Peter Tornambé Searches for supersymmetry in final states with two same-sign leptons, jets and E_T ^miss with the ATLAS detector		
11.30 - 12.00	Christian Lüdtke Search for heavy top squarks in hadronic final states with \(\forall s = 13 \) TeV at the ATLAS experiment		
12.00 - 12.30	Michele Boggia Extending the SM by a Higgs Singlet		
12.30 - 14.00	Lunch break		
14.00 - 15.00	Lecture: Steffen Schumann Introductory talk and discussion		
15.00 - 16.00	Steffen Schumann Sherpa-Tutorial I		
16.00 - 16.30	Coffee break		
16.30 - 18.30	Steffen Schumann Sherpa-Tutorial II		
18.30 - 20.30	Dinner		
20.30 - open end	Meeting of the PhD-students / Meeting of the faculty members		
Tuesday, Octo	ber 11th		
08.00 - 09.00	Breakfast		
09.00 - 10.45	Lecture: Peter Uwer QCD Renormalization - Part I		
10.45 - 11.15	Coffee break		
11.15 - 11.45	Hannah Arnold Search for a heavy, CP-odd Higgs boson A decaying to Zh in the $h \rightarrow b\bar{b}$ decay channel in pp collisions at $Vs = 13$ TeV with the ATLAS detector		
11.45 - 12.15	Matthias Gorzellik Messung exklusiver Reaktionen mit dem COMPASS Experiment		

12.15 - 14.00	Lunch break
14.00 - 15.45	Lecture: Adam Falkowski Status of BSM physics after first LHC Run2 results - Part I
16.00 - open end	Guided tour of Gengenbach with subsequent dinner at restaurant
Wednesday, Oc	tober 12th
08.00 - 09.00	Breakfast
09.00 - 10.45	Lecture: Peter Uwer QCD Renormalization - Part II
10.45 - 12.30	Poster Session with accompanying coffee break
12.30 - 14.00	Lunch
14.00 - 15.45	Lecture: Adam Falkowski Status of BSM physics after first LHC Run2 results - Part II
15.45 -16.15	Coffee break
16.15 - 16.45	Martin Rotzinger Effective field theory to describe Higgs physics beyond the Standard Model
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16.45 - 17.15	Carsten Burgard H->WW->IvIv: Couplings and beyond
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	Postersession \	Wednesday, October 12 from 10.45 - 12.15
1.	Alena Lösle	Background estimation of events with misidentified or non-prompt leptons with the matrix method for investigations of the H $\to \tau \tau \to 2l4~v~$ decay mode with the ATLAS detector at $\sqrt{s} = 13 \text{TeV}$
2.	Matthijs van der Wild	A non-perturbative analysis of quantum frame dependence
3.	Philip Mogg	Methods to improve Signal and Control Regions in the fully hadronic Stop Search at ATLAS
4.	Dirk Sammel	Measurement of the Higgs boson coupling to τ leptons in the $H \to \tau$ lep τ had decay mode at \sqrt{s} = 13TeV with the ATLAS experiment
5.	Fabio Cardillo	Searches for supersymmetry at $\forall s = 13$ TeV with two same-sign leptons, jets and missing energy at the ATLAS detector
6.	Ralf Gugel	Investigation of the gluon-fusion H $ ightarrow$ WW $ ightarrow \ell u \ell' u'$ channel with ATLAS at \sqrt{s} =13TeV
7.	Gernot Knippen	NLO corrections to WWW production an proton-proton colliders
8.	Veronika Magerl	Exploiting boosted scenarios in searches for squarks and gluinos in final states with jets and missing transverse momentum at $Vs = 13$ TeV with the ATLAS detector
9.	Vasilij Sotnikov	Towards a unitarity based computation of NLO corrections in QCD with heavy quarks
10.	Evgenij Pascual	Numerical unitarity methods for the computation of two-loop amplitudes
11.	Tobias Szameitat	Monte Carlo Studies for Deeply Virtual Compton Scattering at COMPASS-III

