

The High-Energy Physics Kit - HEPKIT2015

Monday, 5 October 2015 - Thursday, 8 October 2015

Karlsruhe Institute of Technology (KIT)

Book of Abstracts

Contents

SM Higgs Boson Production and Decay	1
Precise predictions for Higgs production in association with top quarks	1
Welcome	1
Ratio of signal strengths $\gamma\gamma/ZZ$ and the probing of the TeV scale	1
Higgs Couplings and EFT Fits	1
The profile of the Higgs boson at 125 GeV after Run 1	1
Towards full NLO QCD corrections to Higgs boson pair production via gluon fusion	1
Beyond the Standard Model Higgs pair production	2
Herwig and Matchbox	2
Summary of LHC Results	2
Precision Calculations for Gauge Boson Pair Production Processes at the LHC	2
Electroweak Interactions at the Highest Energies	2
Highlights in Top Physics	2
Top-Quark Pair Production close to threshold	2
Fingerprinting natural new top quark physics at the LHC	3
Dominant $O(\alpha_s)$ corrections to Drell–Yan processes in the resonance region	3
Studying the Z boson resonance not with weak loops, but with the SMATASY/ZFITTER-kit	3
Hadronic contributions to electroweak observables from lattice QCD	3
Muon anomalous magnetic moment in BSM: MSSM and THDM	3
Precision Measurements of $\sin^2\theta_w$ at MESA	3
Precision measurements with polarized beams	4
New frontiers in flavor physics	4
On 3-3-1 models	4

LHC, Higgs and SUSY	4
SUSY - Higgs	4
Higgs searches in CMS	4
Higgs boson masses in SUSY Models	4
Full NLO predictions for the decay of CP-odd Higgs bosons into stops in the NMSSM	5
Trilinear couplings at order $cal(\alpha_t\alpha_s)$ in the complex NMSSM	5
SusHi for Vegetarians	5
Precision Calculations of Top- and Bottom-Yukawa Couplings within the Standard Model and Supersymmetry	5
Discriminating between SUSY and Non-SUSY Higgs Sectors through the Ratio $H \rightarrow bb/H \rightarrow \tau\tau$ with a 125 GeV Higgs boson	5
Lab frame observables for CP of the $t \bar{t}$ Higgs coupling	5
CP-violating Higgs decays in the 2HDM	6
Simplified models for Higgs physics	6
Effective Field Theory for the Higgs	6
BSM Higgs physics: effective theories versus UV-complete models	6
Cosmological Relaxation of the Weak Scale	6
Higgs-radion mixing in stabilized brane world models	6
Likelihood analyses in BSM searches: from model-independent up to searches in dedicated scenarios	6
Resummation Results for LHC	7
Stop Searches at the LHC	7
Non-Minimal SUSY Models	7
Farewell	7
CP-violating Higgs decays in the 2HDM	7
nMSSM after the LHC RUN 1	7

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SM Higgs Boson Production and Decay

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Precise predictions for Higgs production in association with top quarks

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Welcome

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Ratio of signal strengths $\gamma\gamma/ZZ$ and the probing of the TeV scale

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Summary of LHC Results

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Morning Session II / 17

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Afternoon Session I / 19

Studying the Z boson resonance not with weak loops, but with the SMATASY/ZFITTER-kit

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Hadronic contributions to electroweak observables from lattice QCD

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Afternoon Session I / 21

Muon anomalous magnetic moment in BSM: MSSM and THDM

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Morning Session I / 27

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Morning Session I / 28

Higgs searches in CMS

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Full NLO predictions for the decay of CP-odd Higgs bosons into stops in the NMSSM

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Precision Calculations of Top- and Bottom-Yukawa Couplings within the Standard Model and Supersymmetry

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Discriminating between SUSY and Non-SUSY Higgs Sectors through the Ratio $H \rightarrow bb/H \rightarrow \tau\tau$ with a 125 GeV Higgs boson

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35

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36

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Morning Session I / 41

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