



# The High-Energy Physics Kit - HEPKIT2015

## Monday, October 5, 2015

### Afternoon Session I: SM Higgs Physics --- Chair: Stefan Dittmaier (2:00 PM - 4:15 PM)

time	[id] title	presenter
2:00 PM	[5] Welcome	MUHLEITNER, Milada
2:15 PM	[3] SM Higgs Boson Production and Decay	SPIRA, Michael
2:45 PM	[4] Precise predictions for Higgs production in association with top quarks	DENNER, Ansgar
3:15 PM	[7] Higgs Couplings and EFT Fits	PLEHN, Tilman
3:45 PM	[6] Ratio of signal strengths $\gamma\gamma/ZZ$ and the probing of the TeV scale	DJOUADI, Abdelhak

# Tuesday, October 6, 2015

## Afternoon Session I: Precision Physics --- Chair: Michael Spira (2:00 PM - 4:00 PM)

time	[id] title	presenter
2:00 PM	[18] Dominant $O(\alpha_s^2)$ corrections to Drell–Yan processes in the resonance region	DITTMAYER, Stefan
2:30 PM	[19] Studying the Z boson resonance not with weak loops, but with the SMATASY/ZFITTER-kit	RIEMANN, Tord
3:00 PM	[20] Hadronic contributions to electroweak observables from lattice QCD	JANSEN, Karl
3:30 PM	[21] Muon anomalous magnetic moment in BSM: MSSM and THDM	STÖCKINGER-KIM, Hyejung

# Wednesday, October 7, 2015

## Afternoon Session I: (B)SM Higgs --- Chair: Geneviève Bélanger (2:00 PM - 4:00 PM)

time	[id] title	presenter
2:00 PM	[32] SusHi for Vegetarians	HARLANDER, Robert
2:30 PM	[33] Precision Calculations of Top- and Bottom-Yukawa Couplings within the Standard Model and Supersymmetry	MIHAILA, Luminita
3:00 PM	[34] Discriminating between SUSY and Non-SUSY Higgs Sectors through the Ratio $H \rightarrow b\bar{b}/H \rightarrow \tau\tau$ with a 125 GeV Higgs boson	PENARANDA RIVAS, Siannah
3:30 PM	[47] CP-violating Higgs decays in the 2HDM	SERRA RIBEIRO DOS SANTOS, Rui Alberto