LHC Higgs Cross Section WG BR Subgroup Meeting

A. Denner, S. Heinemeyer, A. Mück, I. Puljak, D. Rebuzzi and M. Spira

The BR subgroup

with contributions of G. Passarino, R. Tanaka

Past and Future

- Past: prediction for the SM and BSM (in several scenarios) BRs including
 theoretical and parametric uncertainties

 See Michael's talk
 - Information on partial widths available (for error correlations)
 - All documented in the three Yellow Reports and reported on the TWiki pages
- Future: What should we include to improve the predictions? topic of today meeting!
 - Update calculations with a new set of input parameters? (general issue)
 - New version of HDECAY, including Dalitz decay
 - Which rare decays should become relevant for Run II?
 - Anomalous couplings in Prophecy4f?
 - New BSM scenarios?
 - BRs into SUSY particles to be explicitly calculated?
 - Uncertainties in BSM (MSSM?) decays

See Michael's talk

Today's Agenda

Wednesday, 8 October 2014		
10:00 - 10:20	Introduction 20' Speakers: Ansgar Denner (Bayerische Julius Max. Universitaet Wuerzburg (DE)), Sven Heinemeyer (CSIC (Santander, ES)), Ivica Puljak (Technical University of Split FESB), Alexander Mueck, Daniela Rebuzi (INFN Pavia and Pavia University)	▼ zi
	Material: Slides 📆	
10:20 - 10:40	Decays of SM-like Higgs boson in the Georgi-Machacek model 20' Speaker: Prof. Heather Logan (Carleton U.)	T
10:40 - 11:00	Rare Higgs decays to probe the couplings of the Higgs 20' Speaker: Stoyan Emilov Stoynev (Northwestern University (US))	
11:00 - 11:20	Discussion 20' Speaker: All	T

BR updates