





OUTLINE

I. « Common Tools & Methods » Working Group II. News & Announcement

M. Muehlleitner & S. Muanza

EuroGDRSUSY @ Brussels

Nov 12-14th 2007





• Particular approach:

Balanced efforts on sudies & developments of Tools for both:

- Higgs/SUSY/ED Signals And
- SM Backgrounds!!!
- ⇒ Better handle of the standard candles (calibrations, alignment,...)
- ⇒ Better modeling of the backgrounds => assessment of BSM signals
- Webpage: <u>http://www-clued0.fnal.gov/~muanza/SUSY_Tools_Group.html</u>
- Mailing List: GDRSUSY-UTIL@IN2P3.FR
- Thanks for this large audience and the many contributions
- \Rightarrow add'l session wrt to original plans!!!
- We encourage you to contribute to the future group activities and especially for the 4-year report which is due by next summer



I. Introduction



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Tuesday 13 November 2007			top
12:30 15:30	Fools for Higgs & SUSY		
16:00->18:30 Tools	rgarete indemiletiner (CERN/LAPTH Annecy), Steve Muanza (IPN Ly	on)) (Location: 2 NO 707)	
16:00 Introduction (05')		Steve Mu	anza (IPN Lyon)
16:05 FeynHiggs: The Swiss Army Kni 🍬 Slides 🗹)	fe for MSSM Higgs Physics (20') (Sven Heineme	yer (IFCA (CSIC-UC, Santander)) , Sven He	inemeyer (IFCA, Santander)
16:25 Feyn Tools for SUSY (20) (🐲 Slides	🔁)	Thomas Hah	n (MPI, Munich)
16:45 XSUSY, a multipurpose program 🐱 Slides 🖄)	for calculations in SUSY models with non-minimal flavou	ur violation (20') (Be	enjamin Fuks (U. Freiburg)
17:05 The Sherpa Monte Carlo for physics beyond the SM (25)		Steffen Schumann (U. of Edinburgh)	
17:30 Extra jet radiation in inclusive SUSY samples and SM backgrounds (20) (🖦 Slides 🔼)		S. de Visscher (UCL, Louvain)	
17:50 FeynRules: New models phenomenology made easy (20) (🌤 Slides 🔼)		C. Duhr (UCL, Louvain	
18:10 Yukawa Unification in SUSY SO(10) (20)		Sezen Sekmen	(METU, Ankara)
20:00	Banquet (Taverne du Passage (Taverne du Passage))		
09:00->10:30 Tools (Convener: Ma	I 2. Tools for SM & ED	on)) (Location: 2 NO 707) Fulvio Piccinini (<i>INF</i>	N and LL Pavia
09:25 Validation of MC generators for top-pair physics in CMS (20)		Roberto Chierici (<i>IPN Lyon</i>)	
09:45 Tools for Extra-Dimensions (20)		Helenka Przysiezniak	
	uction at the CERN LHC: QCD, matrix elements and joint		Qiang Li (ITP,
10:05 Paper 🖾)	color de the centre ence. Qob, maant elemente and joine		Karlsruhe)
10:30	Sools for Indirect Searches & (Common Method	S
3.1		ON))	
3.1	rgarete wuennether (CERN7LAPTH Annecy) , Steve Muanza (IPN Ly		udi (Uppsala U.)
11:00-> <i>12:40</i> Tools (Convence inter-	n garete wuenliettner (<i>CERN7LAPTH Annecy</i>) , Steve Muanza (<i>IPN Ly</i> om B physics (20')	Nazila Mahmo	udi (Uppsala U.) (SINP, Moscow)
3. 1 11:00-> <i>12:40</i> Tools (Convence: Min 11:00 SuperIso and new constraints fr	irgarete Muenliether (<i>CERN1LAPTH Annecy</i>) , Steve Muanza (<i>IPN Ly</i> om B physics (20') EGAs (20')	Nazila Mahmo	(SINP, Moscow)
3. 1 11:00->12:40 Tools (Convence international development of micrOMI 11:20 Recent development of micrOMI	irgarete Muenliether (<i>CERN1LAPTH Annecy</i>) , Steve Muanza (<i>IPN Ly</i> om B physics (20') EGAs (20')	Nazila Mahmo A. Pukhov	(SINP, Moscow) IIA CEA, Saclay)
3. 1 11:00->12:40 Tools (Convence: Model 11:00 SuperIso and new constraints fr 11:20 Recent development of micrOMM 11:40 Status of Tools for Limits Setting	irgarete Muenliether (<i>CERN1LAPTH Annecy</i>) , Steve Muanza (<i>IPN Ly</i> om B physics (20') EGAs (20')	Nazila Mahmo A. Pukhov Fabrice Couderc (<i>DAPI</i>)	(SINP, Moscow) IIA CEA, Saclay) U, East Lansing)
3. 1 11:00->12:40 Tools (Convence: Mathematical SuperIso and new constraints fr 11:20 Recent development of micrOMI 11:40 Status of Tools for Limits Setting 12:00 Introduction on Jet Issues (10)	irgarete Muenliether (<i>CERN1LAPTH Annecy</i>) , Steve Muanza (<i>IPN Ly</i> om B physics (20') EGAs (20')	Nazila Mahmo A. Pukhov Fabrice Couderc (<i>DAPI</i> Joey Huston (<i>MS</i>	(SINP, Moscow) IIA CEA, Saclay) U, East Lansing)



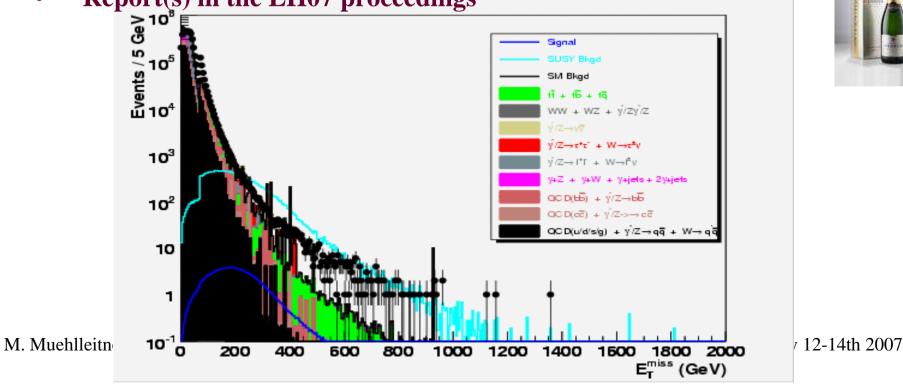


News:

- 1. <u>The « Blind SUSY Search Project » :</u>
 - If you think you can find SUSY @ the LHC, try this over simplified challenge and... win a bottle a champagne!!
 - Anyone can participate: just need to analyse provided samples w/ ROOT (produce your SUSY templates w/ Pythia+FastSim)
 - Project Webpage:

http://www-clued0.fnal.gov/~muanza/Blind_SUSY_Analysis.html

• **Report**(s) in the LH07 proceedings







News:

- 1. <u>The « Blind SUSY Search Project » (cont'd):</u>
 - Main practical problem: Access to the data
 - The 4.5 M evts of the PsD₁ can be downloaded from the webpage
 - For the background:
 - Stored on tapes @ CCIN2P3
 - I transfered the 160 Mevts (~0.5 Tb) of background files to N. Arkani-Hamed group in Harvard
 - + copy on external disk
 - Found a good technical solution @ CCIN2P3:
 - « SRB »: <u>http://cc.in2p3.fr/article524.html?var_recherche=SRB</u>
 - Participants have to send me a mail to get permissions and to install an SRB client on their PC
 - This will enable transparent & easy files transfer
 - I'll make all the files available by the end of next week

M. Muehlleitner & S. Muanza

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