

# XLVth Rencontres de Moriond

## *Electroweak Interactions and Unified Theories*

March 6-13 2010 LaTHUILE

### **Preliminary Program ver 0.3 (changes will occur !)**

#### **Sunday Morning**

#### **The Higgs at TeVatron**

Robert Harlander	Higgs production: higher orders and finite top mass
Wade Fisher	Low Mass SM Higgs
Rick St Denis	High mass SM Higgs
Abdelhak Djouadi	Higgs at Tevatron: predictions and uncertainties
Thomas Schucker	Noncommutative approach : pre- and post-dictions.
Michael Rauch	Extended Scalar sector + Fat jets
Miguel Vidal	BSM Higgs

#### **Sunday Afternoon**

#### **The LHC start-up**

Joerg Wenninger	The LHC machine Status
Wouter Hulsbergen	LHCb experiment status & first results
Martijn Mulders	CMS experiment status & first results
Jean-Francois Arguin	ATLAS experiment status & first results
Christopher Rogan	Higgs look-alikes in LHC
Peter Jenni	Road Map for Discoveries at the Hadron Colliders

#### **Monday Morning**

#### **LHC future findings**

Ulrich Ellwanger	NMSSM
Sabine Kraml	Yukawa unified SUSY GUTs and 7 TeV LHC
Marc Besançon	Revue on ExtraDim signatures at LHC
John Terning	Higgsless review
Giovanni Villadoro	Z' review
Ben Gripaios	Beyond the Minimal Composite Higgs Model.

**Monday Afternoon****Flavour Physics**

Phillip Urquiyo	CKM sides
Owen Long	CKM angles
Jordi Garra Tico	D0 mixing and charm CPV
Maria Rozanska	B decays in final states with tau(Belle)
Federico Mescia	lattice QCD and new flavour physics
Kay Kinoshita	EW related Bs decays (Belle)
Mark Williams	Mixing and Delta Gamma_s (Tevatron)
Peter Onyisi	Results from CLEO-C

**Tuesday Morning****Standard Model and beyond**

Marco Rescigno	Wmass, W+Z properties	Tevatron
Alison Lister	top production	
Yvonne Peters	top properties	
Peter Uwer	Measuring the running top-quark mass	
Ia Iashvili	Diboson Physics	
Gustaaf Brooijmans	Tevatron searches for new physics with leptons	
Amita Raval	Isolated leptons at HERA	
Stanislav Shushkevich	High Q <sup>2</sup> & EW measurements	

**Tuesday Afternoon****Beyond the SM ; YSF1**

Mariano Quiros	Soft walls: an alternative solution to the EW hierarchy
Kyle Cranmer	Cornering the Higgs at LEP
Ben Brau	Tevatron searches : New Physics with photons and jets
Alberto Mariotti	Gauge mediation : mass patterns review
Stephane Lavignac	Non-Standard SUSY spectra in gauge mediation
Ignatios Antoniadis	Higgs in MSSM with dim-5 and 6 operators

YSF1

*see list below*

**Wednesday Morning      Rare processes as probes for BSM**

Steve Robertson      Searches for new physics in Upsilon decays  
Elisa Guido      Lepton Universality (Babar)  
Evgeny Goudzofski      Lepton universality NA62

Christopher Smith      NA 62 physics perspectives  
Elisabetta Baracchini      First results from MEG  
Miha Nemevsek      CP phases in leptonic flavour violation  
Bogdan Malaescu      Current status of g-2  
Florian Domingo      NMSSM : low-energy effects

**Wednesday Afternoon      Rare Processes + Neutrinos + YSF2**

David Webber      Toward a sub-ppm measurement of  $G_F$  (MULAN exp)  
Glen Marshall      Final results for muon decay parameters from TWIST  
Alex Bondar      EW rare decays (Belle)  
Sneha Malde      FCNC, lifetimes, rare decays (Tevatron)  
Yuri Shitov      Neutrinoless double beta decay: from NEMO-3 to SuperNEMO

YSF2      *see list below*

**Thursday Morning      Dark matter + Neutrinos**

Nicolas Bernal      Dark Matter Beyond the MSSM  
Lauren Hsu      CDMS (direct DM)  
Silvia Scorza      First Edelweiss-II results (direct DM)  
Anne Green      Dark matter direct detection: mass/speed distributions  
Kristjan Kannike      DM and EW sym breaking from SO(10)  
  
Kodai Matsuoka      Commissioning results from T2K  
Bari Osmanov      MiniBoone (nu oscillations)  
Masashi Yokoyama      SciBooNE and other neutrino cross section measurements

**Thursday afternoon      Neutrinos YSF3 Moriond discussion**

Patrick Decowski      KamLAND (reactor neutrino oscillations)  
Olivier Simard      SNO low energy threshold analysis and combined fits

YSF3      *see list below*  
Moriond Discussion

**Friday Morning****Neutrinos**

Nicolas Abgrall SHINE Production measurements for neutrino /cosmic rays  
Dario Autiero OPERA (nu tau appearance, long baseline)  
Gwenaelle Lefeuve MINOS (nu oscillations long baseline)  
Basudeb Dasgupta Neutrinos from Supernovae : A Review  
Satoru Yamada Results from SuperK (nu, indirect DM)  
Sven Lafebre Results from ICECube (HE cosmic neutrinos)  
Irina Mocioiu Neutrino properties from large neutrino telescopes

**Friday Afternoon****Dark matter, Astroparticles , Axions**

Abigail Viereggs ANITA (neutrino showers radio detection)  
Sofia Andringa Auger (UHE cosmic rays)  
Tomi Ylinen FERMI (gamma rays satellite)  
Géraldine Servant Higgs in space  
Alessio Notari Effects of Large Voids on the CMB and n-point functions  
Malcolm Fairbairn Axions and transparency of the Universe  
Klaus Ehret Light through the wall (axions) : ALPS and review

**Saturday Morning****Summary talks**

Belen Gavela Summary (Theory)  
Paul Grannis Summary (Experiment)

### **Young Scientists Forum 1**

Sahal Yacoob	The W mass at D0
Henso Abreu	Results on electrons and photon with early data with ATLAS
Luca Perozzi	CMS $\Phi \rightarrow KK$ signal
Plamen Hopchev	Luminosity LHCb
Sascha Stahl	Tracking performances in LHCb
Davide Gerbaudo	Search of the Higgs boson in dilepton + missing Et

### **Young Scientists Forum 2**

Luca Martini	Measuring the $J/\Psi$ cross-section with CMS
Daniele Trocino	CMS Strategy for early obs of $ZZ^* \rightarrow 4e$
Fany Dudziak	Electron identification in ATLAS and the Higgs $\rightarrow 4e$ channel
Janet Dietrich	ATLAS Susy with Early data
Martin Gonzalez-Alonso	New physics bounds from CKM-unitarity
Xabier Cid Vidal	Muon Identification in LHCb
Haruna Oki	T2KK and non-standard neutrino interactions
Marco Nardecchia	Tree level gauge mediation
Sebastien Cassel	The fine tuning guide for SUSY searches
Maria Cabrera	MSSM Forecast for the LHC

### **Young Scientists Forum 3**

Sebastien Murphy	Pion production from $30 \text{ GeVp} + C$ at SHINE-first results
Hajime Ishimori	Lepton and Slepton masses $\Delta(54)$ symmetry
Joshua Albert	T2K
Lorenzo Ubaldi	Probing dark matter with AGN jets
Julien Billard	Directional detection of DM
Keiko Nagao	One loop corrections to WIMP annihilation
Christopher Jones	SONGS reactor
Alexey Lokhov	Neutrino propagation in matter
Alexander Knochel	LHC pheno and DM in Susy higgsless