

# 2011 Moriond -- ElectroWeak Interactions and Unified Theories

March 13-20<sup>th</sup> La Thuile-Aosta Valley

**STILL NOT FINAL !**

**last updated Tuesday, March 15th**

Morning : Brout-Englert-Higgs boson Searches (TeVatron and LHC)

Laurette Ponce	Status of the LHC machine
Babis Anastasiou	The Higgs production rates at TeVatron and at the LHC
Pierluigi Totaro	Low mass SM Higgs in TeVatron
Konstantinos Petridis	High mass SM Higgs at TeVatron
Markus Schumacher	Higgs searches in ATLAS
Christian Veelken	Higgs and Z to tau tau in CMS
Bo Jayatilaka	TeVatron SM Higgs Combination
Christophe Grojean	Alternatives to SM : a review

Afternoon: The Standard Model and beyond

Vivek Sharma	Experimental prospects for the Higgs Search
Philip Coleman Harris	Standard Model measurements in CMS
Mika Vesterinen	Single W and Z production and asymmetries at TeVatron
John Alison	Standard Model measurements in ATLAS
Martina Hurwitz	Diboson Physics at TeVatron
Gero von Gersdorff	Extra dimensions and electroweak breaking -mini review
Adam Falkowski	Non-standard Higgs boson decays
Tim Scanlon	Beyond the SM Higgs Boson at TeVatron

**Tuesday March 15th**

Morning : "Beyond the Standard Model"

Ana Texeira	NMSSM short review
Colin Bernet	SUSY searches at CMS
Manuel Perez-Victoria	Z' bosons and friends
Michel Jaffre	New TeVatron searches for BSM physics
Alessandro Strumia	Fine tuning price of early LHC
Sascha Caron	SUSY searches in ATLAS
Max Baak	Constraints from ew measurements to BSM theories

Afternoon : "Beyond the SM"

Akin Wingerter	A Fourth Chiral Generation and SUSY Breaking
Francesco Santanastasio	Exotica searches at CMS
Philip Bechtle	What if the LHC doesn't find Susy by the end of 2011?
Douglas Gingrich	Exotica searches in ATLAS
David Litim	Asymptotically safe gravity at the LHC and beyond

**Young Scientists Forum 1**

see list below

**Wednesday March 16th**

Morning: "Flavour Physics"

Ulrich Nierste	Flavour physics, supersymmetry and GUTs
Liang Li	Top production at TeVatron (ttbar and single top)
Jernej Kamenik	Top polarisation at LHC and new physics
Fabrizio Margaroli	Top properties from TeVatron
Suzanne Westhoff	F-B asymmetry in top-quark production in R-S
Andreas Weiler	Flavour in Randall-Sundrum models
John Walsh	Rare B & D decays at Babar
Roger Jones	Heavy flavour Physics in Atlas

Afternoon : "Flavour Physics-Lepton flavour - Neutrinos"

Wolfgang Altmannshofer	Lower Bounds on EDM's from D0 mixing in SUSY
Jorge Romao	LHC and lepton flavour violation phenomenology (LR-MSSM)
Evgueni Goudzovski	Searches for lepton flavour and number violation in kaon decays at CERN
Michele Papucci	Dimuon CP asymmetry in B decays
Julia Thom	TeVatron Heavy Flavor
Anton Poluektov	Recent Results on EW physics from Belle
Guillaume Mention	Reactor antineutrino anomaly
Antonio Palazzo	The antineutrino anomaly: implications for the solar neutrino sector

### **Thursday March 17th**

#### Morning : "Flavour Physics, leptogenesis"

Gudrun Hiller	The pheno analysis on rare semileptonic decays $B \rightarrow K^{(*)} \ell \ell$ ,
Mikhail Danilov	Prospects and status of SuperKEKB/Belle II
Amarjit Soni	Demise of the CKM paradigm and its aftermath
Yuehong Xie	CP Violation in B decays with LHCb
Andreas Juettner	Lattice Flavour Physics Results for Phenomenologists
Taku Izubuchi	Recent results of CKM physics; quark masses .. From RBC/UKQCD
Diego Martinez	Search for new physics in Rare B decays at LHCb
Joem Kersten	Reconciling Supersymmetry and Thermal Leptogenesis

#### Afternoon : "Neutrino to Astroparticles-Cosmic rays "

Klaus Helbing	IceCube as a discovery observatory for physics beyond the standard model
Manuela Vecchi	ANTARES: status and recent results
Michael Kachelriess	Lower bound on extragalactic magnetic fields
Isabelle Lhenry-Yvon	Recent results from the Pierre Auger Observatory
Toshiyuki Nonaka	Observation of Ultra High Energy Cosmic Ray at Telescope Array experiment

### **Young Scientists Forum 2**

see list below

### **Friday, March 18th**

#### Morning : "Astroparticles, Dark matter"

Steven Leman	Constraints on Low-Mass WIMP signals from CDMS
Andreas Goudelis	Dark matter models
Aaron Manalaysay	Dark Matter Detection with Noble Liquids
Michel Tytgat	Constraints on a Light WIMP from the Diffuse Gamma-Rays
Ana Sofia Torrento Coello	Latest results of the Edelweiss-II
Eric Dahl	COUPP: First data from a deep-site bubble chamber
Joachim Kopp	Collider limits on dark matter
Timur Delahaye	NMSSM constraints and dark matter signals

#### Afternoon : "Astroparticles "

Laura Covi	Dark matter candidates: axinos, gravitinos (review)
Yoshizumi Inoue	Tokyo axion helioscope experiment and other axion experiments

### **Young Scientists Forum 3**

see list below

#### *MORIOND discussion*

### **Saturday, March 19th**

#### Morning : Dark matter, Energy, Precision test, neutrinos "

Enrique Fernandez-Martinez	Asymmetric dark matter generation via leptogenesis
Fabiana Cossavella	GERDA commissioning results and summary of double beta decay projects
Delphine Hardin	SuperNova Legacy Survey
Osamu Tajima	QUIET and other CMB B-mode searches
Paul Indelicato	Proton charge radius
Alvaro de Rujula	About the proton charge radius
Zarko Pavlovic	Results from MiniBooNE and SciBooNE experiments
Maxim Libanov	Why neutrinos are different

#### Afternoon : "Neutrinos"

Michele Pozzato	Recent results of the OPERA experiment
Mark Hartz	First Results from the T2K Experiment
Sanjib Agarwalla	New approach to antineutrino from muon decay at rest
Pau Novella	Status of the Double Chooz experiment
Yusuke Koshio	Recent results of the solar neutrino measurement in Borexino
Gabriel Perdue	Status of the MINERvA Experiment
Mattias Blennow	Neutrino masses and extra dimensions
Mitch Sodeberg	Neutrino Data Analysis with the ArgoNeuT Project
Ara Ioannisian	Transition Radiation by Neutrinos at an interface

### **Sunday, March 20th**

Chris Quigg	Summary (th)
Robert Roser	Summary (exp)

**YSF1**

Julien Baglio  
Kathryn Tschann-Grimm  
Rushika Nayar  
Josh Bendavid  
Devdatta Majumder  
Nhan Viet Tran  
Aimee Larner  
Abdollah Mohammadi

The Supersymmetric Higgs bounds at the Tevatron and LHC  
D0 search for the SM Higgs in the final state tau-tau-jet-jet  
Search for Higgs to WW at D0  
Measurement of W boson lepton charge asymmetry  
Study of W+gamma events at CMS with 7TeV collisions  
Analysis of Z->l+l- polarization at CMS  
Observation of Z->tau tau Decays with the Atlas Detector  
W->tau nu observation and data-driven estimation of the QCD background

**YSF2**

Florian Goertz  
Jeanette Lorenz  
Marcin Badziak  
Sarah Baker  
Karolos Potamianos  
Michele Pinamonti  
Sylvain Fichet  
Stefano Perazzini

Higgs Physics in Warped Extra Dimensions  
SM backgrounds to SUSY (1lepton+jets+missing transv. energy)  
Yukawa unification in susy SO(10)  
Jet Production cross section measurement with ATLAS  
Search for rare SM processes (Missing transverse energy +b jets)  
Top quark pair cross-section in the lepton+jet final state  
Susy flavor problem in 5D GUTS  
Direct CP violation Bs->Kpi decays at LHCb

**YSF3**

Torsten Pfoh  
Ana Rodriguez-sanchez  
Laura Gladstone  
Juan Herrero  
Gary Cheng  
Rodrigo Alonso de Pablo  
Sebastien Murphy

RS model effects on B\_s CP Violation  
Higgs Boson Masses in the MSSM with Heavy Majorana Neutrinos  
The Shadow of the Moon in IceCube  
Neutrino masses from extra generations  
K+ production in a few GeV neutrino beam  
The Potential of Minimal Flavour Violation  
Charged Pion Cross Sections in Proton C at 31 GeV/c with NA61/SHINE