

2012 Moriond -- ElectroWeak Interactions and Unified Theories

March 3rd-10th La Thuile-Aosta Valley

NOT FINAL !

last updated March 6th,

Sunday morning

Andrea Longhin
Alexander Vikman
Masashi Otani
Tsunayuki Matsubara
Livia Lhudova
Ryan MacLellan
Manimala Mitra

Neutrinos

Opera results
The Price for Neutrino- Superluminality
Results from T2K
Double Chooz
Borexino
EXO results and 2 Beta Decay review
Neutrinoless 2 Beta Decay and Heavy Sterile Neutrinos

Sunday afternoon

Azusa Gando
Emmanuel Chauveau
Aaron Mislivec
Sebastian Böser
Wataru Ootani

Neutrinos, YSF1

KamLAND Zen 2 beta decay
Nemo3 2 beta decay
Minerva
Icecube
Results from MEG

Young Scientists Forum -1-

Monday morning

Nader Mirabolfathi
Michael Marino
Josef Pradler
Jeter Hall
Seung Cheon Kim
Maxim Pospelov
Tsvi Piran

Neutrinos and Dark Matter

CDMS DM (presented by J Hall)
CoGent DM
DAMA and CoGenT : mu-bckgd and higher harmonic contributions
COUPP DM
KIMS DM
alternative DM models –a review
Limits on Lorentz Invariance Violation at the Planck Energy

Monday afternoon

Thomas Papaevangelou
Alexander Lenz
Peter Clarke
Ulrich Haisch
J.Angel Hernando Morata

Dark Matter, Heavy Flavour Physics, YSF2

CAST results and axion review
Theoretical update on B-mixing
Results on CPV in B mixing in LHCb
New physics in Bs mixing and decay
Rare decays in LHCb

Young Scientists Forum -2-

Tuesday morning

Luca Martini
David Straub
Andreas Crivellin
Guennadi Borissov
Jochen Schieck
Gilberto Colangelo
Vincent Poireau

Heavy flavour physics

Search for the Bs and B0 decays to dimuons at CMS
Overview of constraints on new physics in rare B decays
Rare decays and MSSM phenomenology
Heavy flavour measurements at the Tevatron
Heavy flavour measurements in ATLAS and CMS
Lattice & Flavour review
A selection of recent results BABAR

Tuesday afternoon

Till Moritz Karbach
Gagan Mohanty
Christian Hoelbling
Jure Zupan
Jonas Rademacker

Heavy flavour and charm physics, YS3

Results on direct CPV on B decays in LHCb
CP violation results at Belle
Lattice QCD : light quark masses and K mixing factor
Direct CP violation in D decays
Charm: search for direct CPV and CPV in mixing in LHCb

Young Scientists Forum -3-

Wednesday Morning

Francois Englert
Joe Haley

EWSB in the Standard Model

Symmetry breaking and the Scalar boson - evolving perspectives
Results from D0

Homer Wolfe	Results from CDF
Wade Fisher	Tevatron Combination
Sandra Kortner	Results from ATLAS
Marco Pieri	Results from CMS
Jean-François Grivaz	General Discussion: Where do we stand ?

Wednesday afternoon

Michael Rauch	<u>EWSB (SM and beyond) Precision tests</u>
Azeddine Kasmi	LHC ; Standard and Hidden Scalar Bosons
Anna Kaminska	BSM scalar boson results from TeVatron
Veronica Sanz	Strong electroweak symmetry breaking
Sridhara Dasu	How to tell apart non-standard EW symmetry breaking mechanisms
Hengne Li	SUSY and BSM Scalar searches in ATLAS and CMS
Bodhitha Jayatilaka	W mass measurement from D0
Jan Kretzschar	W mass measurement from CDF
	EW measurements from ATLAS and CMS

Thursday morning

Jochum Van Der Bij	<u>EWSB (SM and beyond), Precision tests, SUSY</u>
Thomas Phillips	New spectra in the HEIDI models
Jadranka Sekaric	Single W and Z production asymmetries at Tevatron
Matthias Neubert	Diboson physics
Steven Lowette	Implication of LHC Higgs searches on warped extra dimensions
Sabine Kraml	SUSY searches in LHC
	SUSY status after one year of LHC

Thursday afternoon

Nazila Farvah Mahmoudi	<u>SUSY, Top</u>
Steven Worm	SUSY and a 125 GeV Scalar
Felix Brümmer	Search for Dark Matter in Monojet and Monophoton events (CMS)
Liliana Velasco-Sevilla	Supersymmetric models with light Higgsinos, and LHC results
Carla Biggio	Gluginos lighter than squarks and detection at LHC
Martin Nedden	Phenomenology of SUSY with intermediate scale physics
	Single top physics in ATLAS
	<u>Moriond discussion</u>

Friday morning

Antoine Marzin	<u>Beyond the Standard Model, Lepton flavour</u>
Lisa Randall	Searches for 3rd generation SUSY in ATLAS
David Adams	Natural Explanation for Light Stops
Yutaka Hosotani	BSM searches in ATLAS and CMS
Tomer Volansky	Realistic SO(5) \times U(1) model in RS space
Boris Kayser	Long Lived Exotica at the LHC
Mark Messier	Tensions with the 3 - neutrino paradigm
	Minos Nova, Fnal perspective

Friday afternoon

Sandra Leone	<u>Top Physics, YSF4</u>
German Rodrigo	Top production (asymetry, single top, Vtb) at the Tevatron
Viatcheslav Sharyy	ttbar asymmetry in the standard model and beyond
Pedro Ferreira da Silva	Top properties (mass, width, spin correlations) at the Tevatron
	Top physics in ATLAS and CMS
	<u>Young Scientists Forum -4-</u>

Saturday morning

Alain Blondel	<u>Summary Talks</u>
Wilfried Buchmuller	Experimental summary
	Theory summary

Young Scientists Forum 1

Aurora Meroni	Multiple mechanisms in Neutrinoless Double beta decay
Erica Caden	Neutrino Directionality with Double Chooz
Marja Hanussek	Probing neutrino masses in the RPV cMSSM at sqrt(s)=7 TeV
Adam Anderson	Coherent Neutrino Scattering with Cryogenic Semiconductor Detectors
Guillaume Chalons	Gamma-ray lines constraints in the NMSSM
Dan Fiorino	First light at the HAWC gamma ray detector in Mexico
Sergey Godunov	Critical charge in a superstrong magnetic field

Young Scientists Forum 2

Martin Bauer A Solution to the Flavor Problem of Warped Extra-Dimensions
Juan Yepes Minimal flavour violation with non-linear realized EWSB
Barbara Storaci Studies of the decay $B_s \rightarrow D_s K$
Philippe Mertens $K^+ \rightarrow \pi^+ \pi^0 \gamma$ in the Standard Model and Beyond
Liang Sun $B \rightarrow K^* \ell \ell$ branching fractions and asymmetries
Bastian Kronenbitter Time dependant CPV Belle
Dean Lambert Time integrated Angular Analysis of $B_s \rightarrow \Phi \Phi$ and $B_d \rightarrow \Phi K^*$
Izabela Kochanek Recent Icarus results

Young Scientists Forum 3

Venus Ebrahimi-Keus Abelian symmetries in N-Higgs-doublet Models
Elvira Cervero A vevophobic 2HDM in the light of the LHC
Suchita Kulkarni Effective couplings approach: neutralino dark matter relic density
Jan Heisig Gravitino DM: Long-lived staus at the LHC
Morten Dam Jørgensen Search for SUSY R-hadrons in ATLAS

Young Scientists Forum 4

Luca Marzola Strong SO(10)-inspired leptogenesis and its predictions
Tristan du Pree Measurement of Z+b cross section at CMS
Agniewska Leyko B tagging calibration using ttbar events at ATLAS
Abhinav Dubey Search for the SM scalar boson in $ZH \rightarrow \nu \nu b \bar{b}$ at D0
Juerg Eugster Observation of diffractively produced W in pp collisions in CMS
Joshua Kunkle $H \rightarrow WW \rightarrow \ell \nu \ell \nu$ in ATLAS
Sadia Khalil ttbar production in lepton+Jets using b tagging in CMS
Jyoti Joshi Single top quark production at D0