

March 3rd-10th La Thuile-Aosta Valley

Major reshuffling -- YSF session content largely reshuffled too -- NOT FINAL !

last updated March 2nd

Sunday morning

Andrea Longhin
Alexander Vikman
Mark Messier
Masashi Otani
Tsunayuki Matsubara
Boris Kayser
Steen Hannestad

Neutrinos

Opera results
The Price for Neutrino- Superluminality
Minos Nova, Final perspective
Results from T2K
Double Chooz
Tensions with the 3 - neutrino paradigm
eV sterile neutrinos in cosmology

Sunday afternoon

Belen Gavela
Livia Lhudova
Ryan MacLellan
Manimala Mitra
Azusa Gando
Emmanuel Chauveau

Neutrinos, YSF1

Effective theories of neutrino masses
Borexino
EXO results and 2 Beta Decay review
Neutrinoless 2 Beta Decay and Heavy Sterile Neutrinos
KamLAND Zen 2 beta decay
Nemo3 2 beta decay

Young Scientists Forum -1-

Monday morning

Aaron Mislivec
Sebastian Böser
Nader Mirabolfathi
Michael Marino
Josef Pradler
Jeter Hall
Jean Côme Lanfranchi

Neutrinos and Dark Matter

Minerva
Icecube
CDMS DM
CoGent DM
DAMA and CoGeNT : mu-bckgd and higher harmonic contributions
COUPP DM
CRESST DM

Monday afternoon

Seung Cheon Kim
Maxim Pospelov
Thomas Papaevangelou
Alexander Lenz
Peter Clarke
Ulrich Haisch

Dark Matter, Heavy Flavour Physics, YSF2

KIMS DM
alternative DM models –a review
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

Young Scientists Forum -2-

Tuesday morning

J. Angel Hernando Morata
Luca Martini
David Straub
Andreas Crivellin
Guennadi Borissov
Jochen Schieck
Gilberto Colangelo

Heavy flavour physics

Rare decays in LHCb
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

Tuesday afternoon

Vincent Poireau

Heavy flavour and charm physics, YSF3

A selection of recent results BABAR

Till Moritz Karbach	Results on direct CPV on B decays in LHCb
Gagan Mohanty	CP violation results at Belle
Christian Hoelbling	Lattice QCD : light quark masses and K mixing factor
Jure Zupan	Direct CP violation in D decays
Jonas Rademacker	Charm: search for direct CPV and CPV in mixing in LHCb

Young Scientists Forum -3-

Wednesday Morning

Francois Englert
 Joe Haley
 Homer Wolfe
 Wade Fisher
 Sandra Kortner
 Marco Pieri
 Jean-François Grivaz

EWSB in the Standard Model

Symmetry breaking and the Scalar boson - evolving perspectives
 Results from D0
 Results from CDF
 Tevatron Combination
 Results from ATLAS
 Results from CMS
 General Discussion: Where do we stand ?

Wednesday afternoon

Michael Rauch
 Azeddine Kasmi
 Anna Kaminska
 Veronica Sanz
 Sridhara Dasu
 Hengne Li
 Bodhitha Jayatilaka
 Jan Kretzschar

EWSB (SM and beyond) Precision tests

LHC ; Standard and Hidden Scalar Bosons
 BSM scalar boson results from Tevatron
 Strong electroweak symmetry breaking
 How to tell apart non-standard EW symmetry breaking mechanisms
 SUSY and BSM Scalar searches in ATLAS and CMS
 W mass measurement from D0
 W mass measurement from CDF
 EW measurements from ATLAS and CMS

Thursday morning

Jochum Van Der Bij
 Thomas Phillips
 Jadranka Sekaric
 Matthias Neubert
 Steven Lowette
 Sabine Kraml

EWSB (SM and beyond), Precision tests, SUSY

New spectra in the HEIDI models
 Single W and Z production asymmetries at Tevatron
 Diboson physics
 Implication of LHC Higgs searches on warped extra dimensions
 SUSY searches in LHC
 SUSY status after one year of LHC

Thursday afternoon

Nazila Farvah Mahmoudi
 Steven Worm
 Felix Brümmer
 Liliana Velasco-Sevilla
 Carla Biggio

SUSY

SUSY and a 125 GeV Scalar
 Search for Dark Matter in Monojet and Monophoton events (CMS)
 Supersymmetric models with light Higgsinos, and LHC results
 Gluinos lighter than squarks and detection at LHC
 Phenomenology of SUSY with intermediate scale physics

Moriond discussion

Friday morning

Antoine Marzin
 Lisa Randall
 David Adams
 Yutaka Hosotani
 Tomer Volansky
 Wataru Ootani

Beyond the Standard Model, Lepton flavour

Searches for 3rd generation SUSY in ATLAS
 Natural Explanation for Light Stops
 BSM searches in ATLAS and CMS
 Realistic SO(5)xU(1) model in RS space
 Long Lived Exotica at the LHC
 Results from MEG

Friday afternoon

Sandra Leone
 German Rodrigo
 Viatcheslav Sharyy
 Pedro Ferreira da Silva
 Martin Nedden

Top Physics, YSF4

Top production (asymmetry, single top, Vtb) at the Tevatron
 ttbar asymmetry in the standard model and beyond
 Top properties (mass, width, spin correlations) at the Tevatron
 Top physics in ATLAS and CMS
 Single top physics in ATLAS

Young Scientists Forum -4-

Saturday morning

Alain Blondel
Wilfried Buchmuller

Summary Talks

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
Izabela Kochanek	Recent Icarus results
Guillaume Chalons	Gamma-ray lines constraints in the NMSSM
Adam Anderson	Coherent Neutrino Scattering with Cryogenic Semiconductor Detectors

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

Young Scientists Forum 3

Dean Lambert	Time integrated Angular Analysis of $B_s \rightarrow \Phi \Phi$ and $B_d \rightarrow \Phi K^*$
Joshua Kunkle	$H \rightarrow WW \rightarrow \ell \nu \ell \nu$ in ATLAS
Venus Ebrahimi-Keus	Abelian symmetries in N-Higgs-doublet Models
Abhinav Dubey	Search for the SM Higgs boson in $ZH \rightarrow \nu \nu b \bar{b}$ at D0
Elvira Cervero	A vectorphobic 2HDM in the light of the LHC
Sergey Godunov	Critical charge in a superstrong magnetic field

Young Scientists Forum 4

Jan Heisig	Gravitino DM: Long-lived staus at the LHC
Morten Dam Jørgensen	Search for SUSY R-hadrons in ATLAS
Suchita Kulkarni	Effective couplings approach: neutralino dark matter relic density
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 $t\bar{t}b\bar{b}$ events at ATLAS
Juerg Eugster	Observation of diffractively produced W in pp collisions in CMS
Sadia Khalil	$t\bar{t}b\bar{b}$ production in lepton+Jets using b tagging in CMS
Jyoti Joshi	Single top quark production at D0