

# 2015 Moriond Electroweak session, March 14-21

VERY PRELIMINARY PROGRAM (changes are still LIKELY)

## Sunday March 15th

## Neutrino Physics

### Morning Session

Lisi Eligio	Status of 3 neutrino mixing
Caccianiga Barbara	Recent results from Borexino
Carr Rachel	Entering the Two-Detector Phase of the Double Chooz Experiment
Hu Bei-Zhen	Recent oscillation results from Daya Bay Reactor Neutrino Experiment
Mine Shunichi	Recent results from SuperK
Hayes Anna	A review on "reactor anomaly"
Myslik Jordan	Selected results from T2K

### Afternoon Session

Ahriche Amine	3 loop neutrino mass and phenomenology
Gando Azusa	Recent results from Kamland-Zen
Lopez-Pavon Jacobo	Cosmo constraints on see-saw scale
Choubey Sahndhya	Prospects to determine the neutrino hierarchy
Johnson Tessa	Searches for BSM Physics in double beta decay in EXO-200
Raina Prabhu K.	Neutrinoless double beta decay and nuclear matrix Elements
Heeck Julian	Lepton Number violation with and without Majorana Neutrinos
Haesler Alexis	NA61 data for long baseline neutrino experiments
Patrick Cheryl	Recent results from Minerva

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Monday March 16th

VHE and DarkMatter

## Morning session

De Romeri Valentina	Indirect searches for sterile neutrinos at a high-lumi Z-factory
Yanez Juan Pablo	IceCube PeV events + deep Core oscillations
Vincent Aaron	Flavour composition of HE neutrinos in IceCube
Masip Manuel	A new physics interpretation of IceCube data
Bruno Gianmarco	Recent results from Xenon100
Dogliani Caterina	Dark matter searches in Run1 at LHC, and Run2 potential
Haisch Ulrich	Dark matter at the LHC
Arcadi Giorgio	3.55keV in minimal decaying DM

## Afternoon Session

Schieck Jochen	Direct dark matter search with the CRESST experiment
Davide Franco	Recent results from DarkSide
Saviano Ninetta	Sterile neutrino limits from cosmo
Billard Julien	The neutrino background to direct detection of dark matter
Moulin Emmanuel	Recent results from HESS/HESS2
Henrot-Versillé Sophie	Planck 2014 cosmological results

## YSF1

Kaur Daljeet	Determination of atmospheric neutrino mixing parameters and octant of $\theta_{23}$ at INO-ICAL detector
Main de Boissiere Thibault	First EDELWEISS-III WIMP search data
Magni Stefano	Making sense of the local galactic escape speed estimates in direct dark matter searches
Zsoldos Stephane	Search for a sterile neutrino with the STEREO detector at ILL.
Rameez Mohamed	WIMP annihilations in the Sun: A search using the first year of operation of the completed IceCube neutrino telescope
Eurin Guillaume	NEMO-3 Analysis of the double beta decay of $^{96}\text{Zr}$
Lamprea David	Radiative neutrino masses and dark matter

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Tuesday March 17th

The Scalar Sector

## Morning Session

Kusenko Alexander	Post-Inflation H relaxation and matter-antimatter asymmetry
Vellidis Costas	Higgs and searches for new phenomena (Tevatron)
Piacquadio Giacinto	ATLAS Run1 final results, perspectives for Run2 (and HL-LHC)
Bendavid Josh	CMS Run1 final results, perspectives for Run2 (and HL-LHC)
Duehrssen Michael	ATLAS+CMS combination of Run1
Riva Francesco	Effective Lagrangian facing experimental constraints
Tinoco Mendes André	A middle way between kappas and Wilson coefficients

## Afternoon session

Celis Alejandro	Aligned 2 doublet model
Meridiani Paolo	ATLAS+CMS rare/exotic production channels: results and perspectives
Pelliccioni Mario	High mass WW and ZZ Higgs search with the complete LHC Run1 Statistics
Branchina Enzo	EW vacuum stability depends upon Planck scale physics
Salvio Alberto	On the origin of Scales and Inflation
Lamont Mike	LHC machine ready for Run2 and beyond

## YSF2

Tuna Alexander Naip	Evidence for Yukawa couplings of the Higgs boson to tau lepton with the ATLAS detector and futur prospects
Bizouard Vincent	Neutralino/chargino and sfermion sector at NMSSM
Pinna Deborah	Dark matter produced in association with top quark pair CMS
Navarro De Martino Eduardo	Search for a high mass SM-like Higgs boson at CMS in the H->ZZ decay channel at 8TeV
Kanshin Kirill	One-loop effective non-linear Lagrangian with a light H boson
Brivio Ilaria	Signatures of dynamical scalars

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### Wednesday March 18th

#### Morning Session :

#### Standard Model

Kogler Roman	The global electroweak fit at NNLO
Boonekamp Maarten	ATLAS+CMS: En route to the W mass measurement
Perrozzi Luca	ATLAS+CMS: other EW measurement, Run1 legacy and prospects
Neubert Matthias	EW bosons exclusive radiative decays, SM and beyond
Styles Nicholas	ATLAS+CMS: Collecting and analysing data with 200PU events
Kaminska Anna	Improving LHC searches for strong EW breaking resonances
Bauce Matteo	Electroweak bosons at TeVatron

#### Afternoon Session

#### Top Physics

Azzi Patrizia	The 20th anniversary of the top quark discovery
Jung Andreas	Top quark physics at TeVatron
Weinzierl Stefan	Fundamental constants at the TeV and top mass
Voutilainen Mikko Antero	ATLAS+CMS top mass: current results and future measurements
Loginov Andrey	ATLAS+CMS top production and properties. Run1 Legacy
Majewski Stephanie	Top quarks in ATLAS: bridging measurements and searches

#### YSF3

Stoll Yannick	MSSM SU5 relations for the up squarks
Cornelis Tom Gustaaf M	EW production and hadronic activity in events with Z and fb jets CMS
Sonneveld Jori	Simplified (SUSY) Models
Paredes Hernandez Daniela	Search for a new light gauge boson in the Higgs decays in 4-lepton at ATLAS 8TeV
Delitzsch Chris Malena	Performance of boosted Wboson identification at $\sqrt{S}=8\text{TeV}$ Atlas
Li Xingguo	Measurement of the angular distributions of muon pairs with masses between 30 and 500 GeV in $10.4\text{ fb}^{-1}$ of ppbar collisions
Kolesova Helena	SO10 grand unification at NLO

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### Thursday March 19th

#### Morning Session

#### BSM

Espru Domenc	Resonances in composite Higgs models
Stupak John	ATLAS+CMS: Boosted topologies (Run1 results, Run2 potential)
Polesello Giacomo	Susy blind spots @Run1, perspectives at Run2 and beyond
Godunov Sergey	2h production with iso-triplet scalars
Bainbridge Robert John	CMS: Search for Susy in compressed scenarios
Hayward Helen	ATLAS: Searches for long lived supersymmetric particles
Zaldivar Bryan	Invisible Z' and dark matter LHC vs LUX constraints

#### Afternoon Session

#### BSM

Leney Katharine	ATLAS+CMS : Exotic searches (Run1 results, Run2 potential)
Stolarski Daniel	"Emerging jets" from strongly interacting asymmetric dark matter

### Celebrating the 50th Moriond

Haissinski Jacques

Treille Daniel

Altarelli Guido

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Friday March 20th

Heavy Flavours

## Morning session

Ben Haim Eli	Latest B factories results
Langenbruch Christoph	Latest results on rare decay from LHCb
Matias Joaquim	$B \rightarrow K^* \mu \mu$ : Theory interpretation
Straub David	Implications of $b \rightarrow s$ measurements for model building
Wishahi Julian	CP Violation in the $B(s)0$ system at LHCb
Vallier Alexis	Constraining CKM gamma angle at LHCb
Crivellin Andreas	Lepton flavour Universality violation in B decays and new physics
William Sutcliffe	Vub and semi leptonic results at LHCb

## Afternoon session

Soni Amarjit	Unravelling flavour and naturalness from LHC Run 2 to 100TeV
Gersabeck Evelina	Charm mixing and CPV at LHCb
Sanchez-Hernandez Alberto	Latest results from Bs and Ds at Tevatron
Della Morte Michele	Lattice QCD inputs to flavour physics
Ronchese Paolo	ATLAS+CMS: Rare decays and other recent EW b-physics measurements
Knegjens Rob	$K \rightarrow \pi \nu \nu$ in the Standard Model and beyond

## YSF4

Andrews Jason	$B^+ \rightarrow K \pi^0$ (LHCb)
Dekens, Wouter	Testing left-right symmetric extensions of the Standard Model
Pescatore Luca	Forward-Backward asymmetry in $\Lambda_b \rightarrow \Lambda \mu^+ \mu^-$ LHCb
Heller Andreas	Study of $B^+ \rightarrow l^+ \nu$ gamma decay at Belle
Soldi Dario	NA62 results from the 2014 commissioning

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### Saturday March 21st : Summaries

#### Morning Session

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Wyatt Terry	Experimental Summary
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Strumia Alessandro	Theory Summary
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