

**XLIrst Rencontres de Moriond  
Electroweak Interactions and Unified Theories  
11-18 March 2006**

\* = introduction/review talk

**Sunday morning 8:30**

chair: A.Zghiche

J.Ocariz  
A.Bondar  
C.Bozzi  
F.Borzumati

T.Schietinger  
B.Casey  
P.Maksimovic

**b physics**

mini review on  $\phi_1$ /beta measurements  
mini review on  $\phi_2$ /alpha measurements  
mini review semileptonic B decays  
\*B physics and supersymmetry  
*coffee break*  
mini review on rare B decays  
B physics from D0  
B physics from CDF

**Sunday afternoon 17:00**

chair: M.Danilov

K.Ikado  
J.W.Berryhil  
G.Benelli  
A.Drutskovy

J.Malcles  
D.Cronin-Hennessy  
P.Raimondi  
R.Kolb

**b/c physics**

Search for B decays with neutrinos at Belle  
Rare B decays and sensitivity to new physics at Babar  
New developments in measurements of CP violation (babar)  
Results from the Upsilon5s engineering run (Belle)  
*coffee break*  
Depuzzling B  $\rightarrow$  pi K  
CLEO-c results  
New idea on super B factory  
Acceleration of the universe without dark energy

**Monday morning 8:30**

chair: L.Fayard

C.Dukes  
M.Wilking  
S.Trine  
G.Lamanna  
M.Palutan

E.Brubaker  
M.Kopal  
M.Klute

**K physics/ Top physics**

Evidence from new physics in the decay  $\Sigma^+ \rightarrow p \mu \mu$   
KTeV radiative decays  
Radiative kaon decays  
New Results on direct CP violation in charged Kaon decays by NA48/2  
KLOE results  
*coffee break*  
Top mass CDF  
Top production/single top CDF+D0 and D0 top mass result  
Top properties CDF+D0

**Monday afternoon 17.00**

**Young scientist forum first part**

*coffee break*

**Supersymmetry, neutron edm**

chair: P.Ciafaloni

C.Munoz  
I.Dorsner  
A.Falkowski  
P.Geltenbort

\*Susy: new perspectives and variants  
Minimal realistic SU5 theory  
Anomaly and Gravity mediation combined  
New limit on neutron edm

**Tuesday morning 8:30**

chair: J.F.Grivaz  
 J.Sutiak  
 F.Spano  
 R.S.Chivukula  
 G.Marandella  
  
 F.Sannino  
 P.Chankowski  
 A.Patwa  
 J.Sjolin

**Electroweak**

Electroweak physics at Hera  
 SM measurements (W mass) at LEP  
 \*Effective Higgsless Models  
 Electroweak precision data: a minimal approach  
*coffee break*  
 Dynamical Electroweak Symmetry breaking and the 5th force  
 Double protection of the Higgs potential  
 EW: production, asymmetries & SM Higgs search at the Tevatron  
 Diboson physics at the Tevatron

**Tuesday afternoon 17:00**

chair: A.Duperrin  
 C.Ciobanu  
 R.Hauser  
 M.Quiros  
 E.Nugaev  
  
 D.South  
 G.Pasztor  
 Y.Shadmi

**Searches, New physics**

Searches (lepton final state) at the Tevatron  
 Searches (photon, jet final states) at the Tevatron  
 \*Introduction to extra dimension models  
 Higgs boson with a single generation in the bulk  
*coffee break*  
 Search for new physics at Hera  
 Exotics searches and studies at LEP  
 Supersymmetry breaking and the radion in Ads brane-world

**Wednesday morning 8:30**

chair: B.Kayser  
 C.Pena Garay  
 J.J.Gomez-Cadenas  
 P.Toale  
 I.Haruo  
  
 J.S.Ricol  
 S.Petcov  
 F.Bezrukov  
 G.Moreau

**Neutrinos**

\*What can Neutrinos tell us about new physics  
 HARP results  
 AMANDA results  
 Geoneutrinos from KAMLAND  
*coffee break*  
 NEMO results  
 Theoretical prospects of neutrinoless double beta decay  
 Predictions for neutrinoless double beta decay from nuMSM  
 Randall-Sundrum scenarios visible at the LHC

**Wednesday afternoon 17:00**

chair: P.Janot  
 S.Mrenna  
 K.Lassila-Perini  
 M.White

**LHC**

Tevatron studies for LHC  
 Early LHC physics  
 Susy and Dark matter searches at the LHC

*coffee break*

**Common session with astrophysicists**

chair: J.Tran Thanh Van  
 G.Chardin  
 S.White

Detection of Dark Matter  
 The Millennium Run: Galaxy and Structure Formation in a Supercomputer

**Thursday morning 8:30**

chair: K.Meissner  
 S.Huber  
 M.Tytgat  
 E.Arganda Carreras  
 C.Van Eldik  
  
 A.Zech  
 T.Hambye  
 L.Boubekeur  
 R.Rueckl  
 T.Shindou

**Baryogenesis/Leptogenesis, Astroparticules**

Baryogenesis in the 2-Higgs model  
 Relating leptogenesis and dark matter  
 Lepton Flavor violating tau and muon decays  
 HESS results  
*coffee break*  
 AUGER results  
 Right-handed sector leptogenesis  
 Right-handed neutrinos as the source of density perturbations  
 Supersymmetric lepton flavor violation and leptogenesis  
 LFV radiative decays and leptogenesis in the Susy see saw model

**Thursday afternoon 17:00**

chair:F.Bauer  
 P.Sikivie  
 D.Kang  
 M.Karuzs  
 M.Kleban

**Axions**

ADMX axion search  
 CAST axion search  
 PVLAS axion search  
 Bounds on Pseudoscalars and PVLAS results  
*coffee break*  
 Moriond discussion

**Friday morning 8:30**

chair.J.Iliopoulos  
 I.Navarro  
 G.Barenboim  
 M.Fairbairn  
 Y.Mambrini

**Dark energy and Dark matter**

S.Leclercq  
 H.Gast  
 K.Hasegawa  
 J.Kersten

Dark energy, Mond and submillimeter test of gravity  
 Dark side of inflation  
 Indirect detection of dark matter at the galactic centre  
 Indirect detection of dark matter in supersymmetric models  
*coffee break*  
 CDMS dark matter search results  
 AMS results and Dark matter prospects  
 Protected baryon number in models with Majorana neutrinos  
 Squarks and Sleptons between branes and bulk

**Friday afternoon 17:00**

chair: M.Zito  
 D.Cerdeno  
 S.West  
 N.Regnauld  
 J.R.Espinosa  
 X.Calmet  
 M.Gonin  
 V.Nesvizhevsky

**Young scientist forum, second part****Astroparticules,Quark-gluon plasma**

The neutralino as a dark matter candidate in supergravity and superstrings  
 Neutrino masses, Leptogenesis and Dark matter from supersymmetry breaking  
 Constraining the Properties of the Dark Energy with the SNLS.  
*coffee break*  
 running spectral index as a probe of physics at high scales  
 Test of non-commutative standard model  
 Quark-Gluon plasma review  
 Low energy neutrons/Granit

**Saturday morning**

chair: J:Tran Thanh Van  
 Y.K.Kim  
 J.Lykken

summary experimental results  
 summary theory

**Young scientist forum contributions**

Couce,E.  
 Fernandez-Martinez,E.  
 Flacke,T.  
 Hosteins,P.  
 Lager,S.  
 Lewis,P.  
 Maybury,D.  
 Mohr,B.  
 Morisi,S.  
 Rolbiecki,K.  
 Telta,M.  
 Underwood,T.

Measuring leptonic CP violation in Megaton Water Cerenkovs  
 Alternating ions in Betabeam to solve degeneracies  
 Improved Bounds on Universal Extra Dimensions  
 Constraints in Susy SO(10) models with type II see saw  
 D0 top dilepton cross-section  
 Bd mixing at D0  
 Triviality and the (supersymmetric) see-saw  
 CDF top masses  
 Fermion masses in E6 GUT with family permutation symmetry  
 Challenging CP parameter determination in focus point inspired cases  
 CP/CPT tests with KLOE  
 Lepton flavor effect and resonant leptogenesis