

**Session Program**

**18-30 Jul 2011**

**International Neutrino Summer School**

***Students lectures and answers***

Cartigny

# Monday 18 July

16:00

## Students lectures and answers

**Session** | **Location:** Cartigny**16:00–16:07**   **dark matter annihilation into neutrinos****Speaker**

Esmaili Taklimi Arman

**16:07–16:14**   **reactor neutrino flux****Speaker**

Marcelo Jorge NASCIMENTO SOUZA

**16:14–16:21****Estimating Neutrino Oscillation Parameter Sensitivities for LBNE with GLoBES****Speaker**

Matthew BASS

**16:21–16:28**   **Mass hierarchy in long baseline experiments****Speaker**

Suprabh PRAKASH

**16:28–16:35**   **deviation from unitarity from see-saw mechanisms****Speaker**

David VANEGAS FORERO

**16:35–16:42****Measuring the total neutrino cross section using the IceCube detector****Speaker**

Sandra MIARECKI

**16:42–16:49**   **intranuclear cascade in neutrino nucleus scattering****Speaker**

Tomasz GOLAN

**16:49–16:56**   **Global PID in ND280 Detector****Speaker**

Lorenzo MAGALETTI

17:11

## Tuesday 19 July

16:00

### Students lectures and answers

**Session** | **Location:** Cartigny

16:00–16:07

#### Measurement of electron neutrino flux in T2K

##### Speaker

Javier CARAVACA

16:07–16:14

#### NA61/T2K long target measurements

##### Speaker

Alexis Hasler

16:14–16:21

#### charged current quasi-elastic interactions in T2K

##### Speaker

Wojciech ORYSZCZAK

16:21–16:28

#### studies of neutrino interactions in the T2K near detector

##### Speaker

Chiraz FERCHICHI

16:28–16:35

#### Double Chooz experiment

##### Speaker

Aaron OSBORN

16:35–16:42

#### MICE experiment

##### Speaker

Javier Bilbao

16:42–16:49

#### MICE beam measurement

##### Speaker

Mark Alastair Rayner

16:49–16:56

#### Beam diagnostics in the neutrino factory

##### Speaker

Christopher Tunnell

17:03

## Wednesday 20 July

16:00

### Students lectures and answers

**Session** | **Location:** Cartigny

16:00–16:07 **MINERvA test beam**

**Speaker**

Josh DEVAN

16:07–16:14 **MINERvA -- CC coherent pion production.**

**Speaker**

Aaron HIGUERA

16:14–16:21 **Application of CCFR event length algorithm to MINERvA**

**Speaker**

Cheryl PATRICK

16:21–16:28 **EM shower studies in NOvA**

**Speaker**

Enrique ARRIETA DIAZ

16:28–16:35 **the light collection system for MicroBooNE**

**Speaker**

Arati PRAKASH

16:35–16:42 **ICARUS studies at LNGS**

**Speaker**

Enrico Scantamburlo

16:42–16:49 **Liquid Argon TPC in Microboone**

**Speaker**

Adam PATCH

16:49–16:56

**CC and NC elastic scattering of electrons in the neutrino factory near detector**

**Speaker**

Rosen Matev

16:56–17:03 **'Radon Concentration Line' in SUPERNEMO**

**Speaker**

James MOTT

17:03–17:10 **Indian Neutrino Observatory INO: Study of high energy muons**

**Speaker**

Animesh CHATTERJEE

17:10–17:17

**optimization of the ZnSe bolometers and of the light detectors of the 0vbb experiment Lucifer**

**Speaker**

Laura CARDANI

17:17-17:24

**Hadron Energy Resolution for INO-ICAL Detector**

**Speaker**

Moon Moon DEVI

17:24

## Thursday 21 July

16:00

### Students lectures and answers

**Session** | **Location:** Cartigny

**16:00–16:07    The NEXT experiment**

**Speaker**

Luis Serra DIAZ-CANO

**16:07–16:14    Topological studies in the NEXT experiment**

**Speaker**

Paola FERRARIO

**16:14–16:21    NEXT-1 EL prototype**

**Speaker**

David LORCA GALINDO

**16:21–16:28    T2K ND280 EM calorimeter**

**Speaker**

Alex Thorley

**16:30–16:45    Neutrino energy reconstruction**

**Speakers**

Aaron Higuera, Ole Martin Hansen, Tomasz Golan

**16:45–17:00    solar neutrino flux, and radiation exposure due to solar neutrinos**

**Speakers**

David Lorca Galindo, Laura Cardani, Mr Rosen Matev

17:00

## Friday 22 July

16:00

### Students lectures and answers

**Session** | **Location:** Cartigny

16:00–16:07

#### Neutrino Factory front end studies

**Speaker**

Ole Martin Hansen

16:07–16:14

#### The Use of Neutrinos in Bio-Inspired Personalized Medicine

**Speaker**

Olufemi ADELUYI

16:14–16:21

#### to be announced

**Speaker**

Xin Yang

16:21–16:36

#### tau neutrino beam (I)

**Speakers**

Josh Devan, Marcelo Jorge NASCIMENTO SOUZA, Mark Alastair Rayner

16:51–17:06

#### CP violation in neutrino oscillation experiments

**Speakers**

Aaron Osborn, Luis Serra Diaz Cano, animesh chetterjee

17:06–17:26

#### threshold of protons on CMB; CP violation in disappearance experiment?

**Speakers**

Arman Esmaili Taklimi, James Mott, Paola Ferrario

17:26

# Monday 25 July

16:00

## Students lectures and answers

Session | Location: Cartigny

16:00–16:15 **neutrino from TeV cosmic sources**

### Speakers

Cheryl Patrick, Wojciech ORYSZCZAK, sandra miarecki

16:15–16:30 **Neutrino-electron scattering:**

### Speakers

Alexis Hasler, Chiraz Ferchichi, Moon Moon DEVI

16:30–16:45 **T2K's sensitivity to CP violation.**

### Speakers

Christopher Tunnell, Matthew Bass, Suprabh Prakash

16:45–17:00 **tau neutrino beam (II)**

### Speakers

Alex Thorley, Enrique Arrieta Diaz, enrico scantamburlo

17:10



## Tuesday 26 July

16:00

### Students lectures and answers

**Session** | **Location:** Cartigny

16:15–16:30

#### direct neutrino mass measurement from pion decay

**Speakers**

Arati PRAKASH, David VANEGAS FORERO, Javier CARAVACA

16:30–16:45

#### neutrinoless double beta decay

**Speakers**

Esmaili ARMAN, James Mott, Paola Ferrario

17:00

## Wednesday 27 July

16:00

### Students lectures and answers

Session | Location: Cartigny

16:00-16:20 **design a neutrino factory**

16:20-16:40 **detection of terrorist nuclear activity**

16:40-17:00 **more on CP violation in T2K --terrorist activity detection (II)**

17:00

## Thursday 28 July

16:00

### Students lectures and answers

**Session** | **Location:** Cartigny

16:00–16:20

#### electron neutrino scattering II

**Speakers**

Alexis Hasler, Chiraz Ferchichi

17:00

16:20–16:40

#### neutrino helicity group 8

## Friday 29 July

17:30

### Students lectures and answers

Session | Location: Cartigny

17:30-17:50

**direct neutrino mass measurement in 2-body decays and neutrino oscillations (group 2)**

17:50-18:10

**nuclear reactor anomaly (group 3)**

18:10-18:30

**Nuclear reactor anomaly (group 11)**

18:30-18:50

**nuclear anomaly (group 10)**

18:50

## Saturday 30 July

10:30

### Students lectures and answers

Session | Location: Cartigny

12:00

10:30-10:50

**atmospheric neutrinos and mass hierarchy-group 7**

10:50-11:10

**Higgs triplet and neutrino masses (group 6)**