

International Neutrino Summer School

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome Introduction

Monday 18 July 2011 08:30 (15 minutes)

Presenter: BLONDEL, Alain (Dept. de Phys. Nucl. et Corpuscul. (DPNC)-Section de Physique-U)

Contribution ID: 1

Type: **not specified**

Questions

Monday 18 July 2011 08:45 (15 minutes)

Presenter: MCFARLAND, Kevin (University of Rochester)

Contribution ID: 2

Type: **not specified**

Standard Model

Monday 18 July 2011 09:00 (1h 30m)

Presenter: VISSANI, Francesco (LNGS)

Contribution ID: 3

Type: **not specified**

Massive Neutrinos

Wednesday 20 July 2011 17:30 (1h 30m)

Presenter: KAYSER, Boris

Contribution ID: 4

Type: **not specified**

Group Tutorials

Monday 18 July 2011 13:30 (2 hours)

Contribution ID: 5

Type: **not specified**

Experimental Basics

Monday 18 July 2011 11:00 (1h 30m)

Presenter: MARCHIONNI, Alberto (Eidgenoessische Tech. Hochschule Zuerich (ETHZ))

Contribution ID: 6

Type: **not specified**

Standard Model

Tuesday 19 July 2011 08:30 (1h 30m)

Presenter: VISSANI, Francesco (LNGS)

Contribution ID: 7

Type: **not specified**

Massive Neutrinos

Friday 22 July 2011 08:30 (1h 30m)

Presenter: KAYSER, Boris

Contribution ID: 8

Type: **not specified**

Group Tutorials

Tuesday 19 July 2011 13:30 (2 hours)

Contribution ID: 9

Type: **not specified**

Experimental Basics

Wednesday 20 July 2011 10:30 (1h 30m)

Presenter: MARCHIONNI, Alberto (Eidgenoessische Tech. Hochschule Zuerich (ETHZ))

Contribution ID: **10**

Type: **not specified**

Neutrino beams

Wednesday 20 July 2011 08:30 (1h 30m)

Presenter: Dr GILARDONI, Simone (CERN)

Contribution ID: **11**

Type: **not specified**

Massive Neutrinos

Thursday 21 July 2011 10:30 (1h 30m)

Presenter: KAYSER, Boris

Contribution ID: **12**

Type: **not specified**

Group Tutorials

Wednesday 20 July 2011 13:30 (2 hours)

Contribution ID: 13

Type: **not specified**

Experimental Basics

Monday 18 July 2011 17:30 (1h 30m)

Presenter: MARCHIONNI, Alberto (Eidgenoessische Tech. Hochschule Zuerich (ETHZ))

Contribution ID: **14**

Type: **not specified**

Neutrino beams

Thursday 21 July 2011 08:30 (1h 30m)

Presenter: Dr GILARDONI, Simone (CERN)

Contribution ID: 15

Type: **not specified**

Neutrinos and the Universe

Friday 22 July 2011 10:30 (1h 30m)

Presenter: GONZALEZ-GARCIA, Concepcion (Polytechnical University of Valencia)

Contribution ID: **16**

Type: **not specified**

Group Tutorials

Thursday 21 July 2011 13:30 (2 hours)

Contribution ID: 17

Type: **not specified**

Detector technologies

Tuesday 19 July 2011 17:30 (1h 30m)

Presenter: HARRIS, Deborah

Contribution ID: **18**

Type: **not specified**

Neutrino beams

Tuesday 19 July 2011 10:30 (1h 30m)

Presenter: Dr GILARDONI, Simone (CERN)

Contribution ID: **19**

Type: **not specified**

Cross-sections

Saturday 23 July 2011 17:30 (1h 30m)

Presenter: WASCKO, Morgan (Blackett Lab.High Energy Phys.Group-Imperial College-Unknown)

Contribution ID: **20**

Type: **not specified**

Group Tutorials

Friday 22 July 2011 13:30 (2 hours)

Contribution ID: **21**

Type: **not specified**

Cross-sections

Saturday 23 July 2011 13:30 (1h 30m)

Presenter: WASCKO, Morgan (Blackett Lab.High Energy Phys.Group-Imperial College-Unknown)

Contribution ID: 22

Type: **not specified**

Neutrinos and the Universe

Friday 22 July 2011 17:30 (1h 30m)

Presenter: GONZALEZ-GARCIA, Concepcion (Polytechnical University of Valencia)

Contribution ID: 23

Type: **not specified**

Visit to CERN

Saturday 23 July 2011 09:00 (3h 30m)

Contribution ID: 24

Type: **not specified**

Excursion

Sunday 24 July 2011 08:30 (10 hours)

Contribution ID: 25

Type: **not specified**

Reactor Neutrinos

Monday 25 July 2011 08:30 (1h 30m)

Presenter: THIERRY, Lasserre

Contribution ID: 26

Type: **not specified**

Present program

Monday 25 July 2011 10:30 (1h 30m)

Presenter: ICHIKAWA, Atsuko (KEK)

Contribution ID: 27

Type: **not specified**

Group Tutorials

Monday 25 July 2011 13:30 (2 hours)

Contribution ID: **28**

Type: **not specified**

Models

Monday 25 July 2011 17:30 (1h 30m)

Presenter: Prof. ANTUSCH, Stefan (University of Basel)

Contribution ID: 29

Type: **not specified**

Reactor Neutrinos

Tuesday 26 July 2011 08:30 (1h 30m)

Presenter: THIERRY, Lasserre

Contribution ID: **30**

Type: **not specified**

Present program

Tuesday 26 July 2011 10:30 (1h 30m)

Presenter: ICHIKAWA, Atsuko

Contribution ID: **31**

Type: **not specified**

Group Tutorials

Tuesday 26 July 2011 13:30 (2 hours)

Contribution ID: 32

Type: **not specified**

Models

Tuesday 26 July 2011 17:30 (1h 30m)

Presenter: Prof. ANTUSCH, Stefan (University of Basel)

Contribution ID: **33**

Type: **not specified**

Future program

Wednesday 27 July 2011 08:30 (1h 30m)

Presenter: MEZZETTO, Mauro (Dipartimento di Fisica Galileo Galilei)

Contribution ID: 34

Type: **not specified**

Neutrino-less double beta decay

Wednesday 27 July 2011 10:30 (1h 30m)

Presenter: GOMEZ CADENAS, Juan Jose (Dept.Fisica Atomica, Molecular y Nuclear)

Contribution ID: 35

Type: **not specified**

Group Tutorials

Wednesday 27 July 2011 13:30 (2 hours)

Contribution ID: **36**

Type: **not specified**

Models

Wednesday 27 July 2011 17:30 (1h 30m)

Presenter: Prof. ANTUSCH, Stefan (University of Basel)

Contribution ID: 37

Type: **not specified**

Future program

Thursday 28 July 2011 08:30 (1h 30m)

Presenter: MEZZETTO, Mauro

Contribution ID: 38

Type: **not specified**

Neutrino-less double beta decay

Thursday 28 July 2011 10:30 (1h 30m)

Presenter: GOMEZ CADENAS, Juan Jose (Dept.Fisica Atomica, Molecular y Nuclear)

Contribution ID: **39**

Type: **not specified**

Group Tutorials

Thursday 28 July 2011 13:30 (2 hours)

Contribution ID: **40**

Type: **not specified**

Cosmic Neutrinos

Thursday 28 July 2011 17:30 (1h 30m)

Presenter: MONTARULI, Teresa

Contribution ID: 41

Type: **not specified**

Future Program

Friday 29 July 2011 08:30 (1h 30m)

Presenter: MEZZETTO, Mauro

Contribution ID: 42

Type: **not specified**

Neutrino-less double beta decay

Friday 29 July 2011 10:30 (1h 30m)

Presenter: GOMEZ CADENAS, Juan Jose (Dept.Fisica Atomica, Molecular y Nuclear)

Contribution ID: 43

Type: **not specified**

Group Tutorials

Friday 29 July 2011 15:30 (2 hours)

Contribution ID: 44

Type: **not specified**

Cosmic Neutrinos

Friday 29 July 2011 13:30 (1h 30m)

Presenter: MONTARULI, Teresa

Contribution ID: 45

Type: **not specified**

Closing Lecture

Saturday 30 July 2011 13:30 (1 hour)

Contribution ID: 48

Type: **not specified**

Neutrinos from the Big Bang

Saturday 30 July 2011 08:30 (1h 30m)

Presenter: COCCO, Alfredo (Istituto Nazionale di Fisica Nucleare (INFN))

Contribution ID: 49

Type: **not specified**

dark matter annihilation into neutrinos

Monday 18 July 2011 16:00 (7 minutes)

Presenter: ARMAN, Esmaili Taklimi

Session Classification: Students lectures and answers

Contribution ID: 50

Type: **not specified**

NSI in elastic electron neutrino + electron scattering

Presenter: KHAN, Amir Nawaz

Contribution ID: 51

Type: **not specified**

reactor neutrino flux

Monday 18 July 2011 16:07 (7 minutes)

Presenter: NASCIMENTO SOUZA, Marcelo Jorge

Session Classification: Students lectures and answers

Contribution ID: 52

Type: **not specified**

Mass hierarchy in long baseline experiments

Monday 18 July 2011 16:21 (7 minutes)

Presenter: PRAKASH, Suprabh

Session Classification: Students lectures and answers

Contribution ID: 53

Type: **not specified**

deviation from unitarity from see-saw mechanisms

Monday 18 July 2011 16:28 (7 minutes)

Presenter: VANEGAS FORERO, David

Session Classification: Students lectures and answers

Contribution ID: 54

Type: **not specified**

Double Chooz experiment

Tuesday 19 July 2011 16:28 (7 minutes)

Presenter: OSBORN, Aaron

Session Classification: Students lectures and answers

Contribution ID: 55

Type: **not specified**

Measuring the total neutrino cross section using the IceCube detector

Monday 18 July 2011 16:35 (7 minutes)

Presenter: MIARECKI, Sandra

Session Classification: Students lectures and answers

Contribution ID: 56

Type: **not specified**

intranuclear cascade in neutrino nucleus scattering

Monday 18 July 2011 16:42 (7 minutes)

Presenter: GOLAN, Tomasz

Session Classification: Students lectures and answers

Contribution ID: 57

Type: **not specified**

Measurement of electron neutrino flux in T2K

Tuesday 19 July 2011 16:00 (7 minutes)

Presenter: CARAVACA, Javier

Session Classification: Students lectures and answers

Contribution ID: 58

Type: **not specified**

Global PID in ND280 Detector

Monday 18 July 2011 16:49 (7 minutes)

Presenter: MAGALETTI, Lorenzo

Session Classification: Students lectures and answers

Contribution ID: 59

Type: **not specified**

charged current quasi-elastic interactions in T2K

Tuesday 19 July 2011 16:14 (7 minutes)

Presenter: ORYSZCZAK, Wojciech

Session Classification: Students lectures and answers

Contribution ID: **60**

Type: **not specified**

Estimating Neutrino Oscillation Parameter Sensitivities for LBNE with GLoBES

Monday 18 July 2011 16:14 (7 minutes)

Presenter: BASS, Matthew

Session Classification: Students lectures and answers

Contribution ID: **61**

Type: **not specified**

studies of neutrino interactions in the T2K near detector

Tuesday 19 July 2011 16:21 (7 minutes)

Presenter: FERCHICHI, Chiraz

Session Classification: Students lectures and answers

Contribution ID: **62**

Type: **not specified**

MICE beam measurement

Tuesday 19 July 2011 16:42 (7 minutes)

Presenter: RAYNER, Mark Alastair (Dept. de Phys. Nucl. et Corpuscul. (DPNC)-Section de Physique-U)

Session Classification: Students lectures and answers

Contribution ID: 63

Type: **not specified**

NA61/T2K long target measurements

Tuesday 19 July 2011 16:07 (7 minutes)

Presenter: HASLER, Alexis (Dept. de Phys. Nucl. et Corpuscul. (DPNC)-Section de Physique-U)

Session Classification: Students lectures and answers

Contribution ID: 64

Type: **not specified**

Beam diagnostics in the neutrino factory

Tuesday 19 July 2011 16:49 (7 minutes)

Presenter: TUNNELL, Christopher

Session Classification: Students lectures and answers

Contribution ID: 65

Type: **not specified**

MINERvA test beam

Wednesday 20 July 2011 16:00 (7 minutes)

Presenter: DEVAN, Josh

Session Classification: Students lectures and answers

Contribution ID: **66**

Type: **not specified**

MINERvA – CC coherent pion production.

Wednesday 20 July 2011 16:07 (7 minutes)

Presenter: HIGUERA, Aaron

Session Classification: Students lectures and answers

Contribution ID: 67

Type: **not specified**

Application of CCFR event length algorithm to MINERvA

Wednesday 20 July 2011 16:14 (7 minutes)

Presenter: PATRICK, Cheryl

Session Classification: Students lectures and answers

Contribution ID: **68**

Type: **not specified**

EM shower studies in NOvA

Wednesday 20 July 2011 16:21 (7 minutes)

Presenter: ARRIETA DIAZ, Enrique

Session Classification: Students lectures and answers

Contribution ID: **69**

Type: **not specified**

ICARUS studies at LNGS

Wednesday 20 July 2011 16:35 (7 minutes)

Presenter: SCANTAMBURLO, Enrico

Session Classification: Students lectures and answers

Contribution ID: 70

Type: **not specified**

the light collection system for MicroBooNE

Wednesday 20 July 2011 16:28 (7 minutes)

Presenter: PRAKASH, Arati

Session Classification: Students lectures and answers

Contribution ID: 71

Type: **not specified**

Liquid Argon TPC in Microboone

Wednesday 20 July 2011 16:42 (7 minutes)

Presenter: PATCH, Adam

Session Classification: Students lectures and answers

Contribution ID: 72

Type: **not specified**

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

Wednesday 20 July 2011 16:49 (7 minutes)

Presenter: MATEV, Rosen (Conseil Europeen Recherche Nucl. (CERN))

Session Classification: Students lectures and answers

Contribution ID: 73

Type: **not specified**

Topological studies in the NEXT experiment

Thursday 21 July 2011 16:07 (7 minutes)

Presenter: FERRARIO, Paola

Session Classification: Students lectures and answers

Contribution ID: 74

Type: **not specified**

NEXT-1 EL prototype

Thursday 21 July 2011 16:14 (7 minutes)

Presenter: LORCA GALINDO, David

Session Classification: Students lectures and answers

Contribution ID: 75

Type: **not specified**

The NEXT experiment

Thursday 21 July 2011 16:00 (7 minutes)

Presenter: DIAZ-CANO, Luis Serra

Session Classification: Students lectures and answers

Contribution ID: 76

Type: **not specified**

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

Wednesday 20 July 2011 17:10 (7 minutes)

Presenter: CARDANI, Laura

Session Classification: Students lectures and answers

Contribution ID: 77

Type: **not specified**

'Radon Concentration Line' in SUPERNEMO

Wednesday 20 July 2011 16:56 (7 minutes)

Presenter: MOTT, James

Session Classification: Students lectures and answers

Contribution ID: 78

Type: **not specified**

Indian Neutrino Observatory INO: Study of high energy muons

Wednesday 20 July 2011 17:03 (7 minutes)

Presenter: CHATTERJEE, Animesh

Session Classification: Students lectures and answers

Contribution ID: 79

Type: **not specified**

Hadron Energy Resolution for INO-ICAL Detector

Wednesday 20 July 2011 17:17 (7 minutes)

Presenter: DEVI, Moon Moon

Session Classification: Students lectures and answers

Contribution ID: **80**

Type: **not specified**

T2K ND280 EM calorimeter

Thursday 21 July 2011 16:21 (7 minutes)

Presenter: THORLEY, Alex

Session Classification: Students lectures and answers

Contribution ID: **81**

Type: **not specified**

The Use of Neutrinos in Bio-Inspired Personalized Medicine

Friday 22 July 2011 16:07 (7 minutes)

Presenter: ADELUYI, Olufemi

Session Classification: Students lectures and answers

Contribution ID: **82**

Type: **not specified**

Neutrino Factory front end studies

Friday 22 July 2011 16:00 (7 minutes)

Presenter: HANSEN, Ole Martin

Session Classification: Students lectures and answers

Contribution ID: **83**

Type: **not specified**

to be announced

Friday 22 July 2011 16:14 (7 minutes)

Presenter: YANG, Xin

Session Classification: Students lectures and answers

Contribution ID: **84**

Type: **not specified**

MICE experiment

Tuesday 19 July 2011 16:35 (7 minutes)

Presenter: BILBAO, Javier

Session Classification: Students lectures and answers

Contribution ID: 85

Type: **not specified**

Massive Neutrinos

Thursday 21 July 2011 17:30 (1h 30m)

Presenter: KAYSER, Boris

Contribution ID: 86

Type: **not specified**

Neutrino energy reconstruction

Thursday 21 July 2011 16:30 (15 minutes)

Presenters: HIGUERA, Aaron (Fermilab); HANSEN, Ole Martin (Department of Physics-University of Oslo); GOLAN, Tomasz

Session Classification: Students lectures and answers

Contribution ID: 87

Type: **not specified**

solar neutrino flux, and radiation exposure due to solar neutrinos

Thursday 21 July 2011 16:45 (15 minutes)

Presenters: LORCA GALINDO, David (Consejo Superior de Investigaciones Cientificas (CSIC)-Universi); CAR-DANI, Laura (infn); Mr MATEV, Rosen (University of Sofia)

Session Classification: Students lectures and answers

Contribution ID: **88**

Type: **not specified**

tau neutrino beam (I)

Friday 22 July 2011 16:21 (15 minutes)

Presenters: DEVAN, Josh (William & Mary); NASCIMENTO SOUZA, Marcelo Jorge; RAYNER, Mark Alastair (Dept. de Phys. Nucl. et Corpuscul. (DPNC)-Section de Physique-U)

Session Classification: Students lectures and answers

Contribution ID: 89

Type: **not specified**

tau neutrino beam (II)

Monday 25 July 2011 16:45 (15 minutes)

Presenters: THORLEY, Alex (University of Liverpool); ARRIETA DIAZ, Enrique; SCANTAM-BURLO, enrico

Session Classification: Students lectures and answers

Contribution ID: 90

Type: **not specified**

CP violation in neutrino oscillation experiments

Friday 22 July 2011 16:51 (15 minutes)

Presenters: OSBORN, Aaron (The University of Tennessee, Knoxville); SERRA DIAZ CANO, Luis (Consejo Superior de Investigaciones Cientificas (CSIC)-Universit); CHETTERJEE, animesh

Session Classification: Students lectures and answers

Contribution ID: 91

Type: **not specified**

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

Friday 22 July 2011 17:06 (20 minutes)

Presenters: ESMAILI TAKLIMI, Arman; MOTT, James (UCL); FERRARIO, Paola

Session Classification: Students lectures and answers

Contribution ID: 92

Type: **not specified**

neutrino from TeV cosmic sources

Monday 25 July 2011 16:00 (15 minutes)

Presenters: PATRICK, Cheryl (Northwestern University); ORYSZCZAK, Wojciech; MIARECKI, sandra

Session Classification: Students lectures and answers

Contribution ID: 93

Type: **not specified**

Neutrino-electron scattering:

Monday 25 July 2011 16:15 (15 minutes)

Presenters: HASLER, Alexis (Dept. de Phys. Nucl. et Corpuscul. (DPNC)-Section de Physique-U); FER-CHICHI, Chiraz (SPP/IRFU/CEA Saclay); DEVI, Moon Moon

Session Classification: Students lectures and answers

Contribution ID: 94

Type: **not specified**

T2K's sensitivity to CP violation.

Monday 25 July 2011 16:30 (15 minutes)

Presenters: TUNNELL, Christopher; BASS, Matthew (Colorado State University); PRAKASH, Suprabh (Indian Institute of Technology - Bombay)

Session Classification: Students lectures and answers

Contribution ID: 95

Type: **not specified**

direct neutrino mass measurement from pion decay

Tuesday 26 July 2011 16:15 (15 minutes)

Presenters: PRAKASH, Arati; VANEGAS FORERO, David; CARAVACA, Javier

Session Classification: Students lectures and answers

Contribution ID: 96

Type: **not specified**

neutrinoless double beta decay

Tuesday 26 July 2011 16:30 (15 minutes)

Presenters: ARMAN, Esmaili; MOTT, James (UCL); FERRARIO, Paola

Session Classification: Students lectures and answers

Contribution ID: 97

Type: **not specified**

design a neutrino factory

Wednesday 27 July 2011 16:00 (20 minutes)

Session Classification: Students lectures and answers

Contribution ID: 98

Type: **not specified**

detection of terrorist nuclear activity

Wednesday 27 July 2011 16:20 (20 minutes)

Session Classification: Students lectures and answers

Contribution ID: 99

Type: **not specified**

more on CP violation in T2K –terrorist activity deteection (II)

Wednesday 27 July 2011 16:40 (20 minutes)

Session Classification: Students lectures and answers

Contribution ID: **100**

Type: **not specified**

electron neutrino scattering II

Thursday 28 July 2011 16:00 (20 minutes)

Presenters: HASLER, Alexis (Dept. de Phys. Nucl. et Corpuscul. (DPNC)-Section de Physique-U); FER-CHICHI, Chiraz (SPP/IRFU/CEA Saclay)

Session Classification: Students lectures and answers

Contribution ID: **101**

Type: **not specified**

neutrino helicity group 8

Thursday 28 July 2011 16:20 (20 minutes)

Session Classification: Students lectures and answers

Contribution ID: **102**

Type: **not specified**

nuclear reactor anomaly (group 3)

Friday 29 July 2011 17:50 (20 minutes)

Session Classification: Students lectures and answers

Contribution ID: **103**

Type: **not specified**

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

Friday 29 July 2011 17:30 (20 minutes)

Session Classification: Students lectures and answers

Contribution ID: **104**

Type: **not specified**

Nuclear reactor anomaly (group 11)

Friday 29 July 2011 18:10 (20 minutes)

Session Classification: Students lectures and answers

Contribution ID: **105**

Type: **not specified**

nuclear anomaly (group 10)

Friday 29 July 2011 18:30 (20 minutes)

Session Classification: Students lectures and answers

Contribution ID: **106**

Type: **not specified**

atmospheric neutrinos and mass hierarchy-group 7

Saturday 30 July 2011 10:30 (20 minutes)

Session Classification: Students lectures and answers

Contribution ID: **108**

Type: **not specified**

Higgs triplet and neutrino masses (group 6)

Saturday 30 July 2011 10:50 (20 minutes)

Session Classification: Students lectures and answers