

Neutrino Factory Near Detector Workshop

Report of Contributions

Contribution ID: 0

Type: **not specified**

Neutrino cross section measurements with the Near detector (νN quasielastic, resonance, coherent, deep inelastic scattering): available data and confrontation with theoretical predictions

Saturday 30 July 2011 13:45 (45 minutes)

Author: MORFIN, Jorge (Fermilab)

Presenter: MORFIN, Jorge (Fermilab)

Contribution ID: 1

Type: **not specified**

Some simulations of muon flux in the NF decay ring and consequences for the Near detector

Sunday 31 July 2011 12:25 (30 minutes)

Presenter: TUNNELL, Christopher

Contribution ID: 2

Type: **not specified**

Charm production in neutrino interactions as background source to oscillation signal and as a physics measurement on its own

Sunday 31 July 2011 12:55 (40 minutes)

Presenter: MIGLIOZZI, Pasquale (Sezione di Napoli (INFN)-Universita e INFN)

Contribution ID: 3

Type: **not specified**

Charm production in MIND-type Far detector as background to the oscillation signal

Sunday 31 July 2011 14:15 (45 minutes)

Presenter: BAYES, Ryan (University of Glasgow)

Contribution ID: 4

Type: **not specified**

Statistical and systematic uncertainties of measurements with the Near detector

Saturday 30 July 2011 16:30 (45 minutes)

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

Contribution ID: 5

Type: **not specified**

Search for non-standard interactions with the Near detector

Saturday 30 July 2011 14:30 (45 minutes)

Presenter: Dr FERNANDEZ MARTINEZ, Enrique (CERN)

Contribution ID: 6

Type: **not specified**

How to extract Neutrino Factory flux from IMD and neutrino elastic scattering?

Saturday 30 July 2011 15:45 (45 minutes)

Presenter: SOLER JERMYN, Paul (University of Glasgow)

Contribution ID: 7

Type: **not specified**

Neutrino flux from the muon decay ring –features and beam related background at the Near Detector. ND optimal positioning

Sunday 31 July 2011 11:45 (40 minutes)

Presenter: KARADZHOV, Yordan (Section de Physique-Universite de Geneve)

Contribution ID: 8

Type: **not specified**

Extrapolation of neutrino flux measured in Near detector to the Far detector

Saturday 30 July 2011 11:30 (45 minutes)

Presenters: SOLER, Paul (University of Glasgow); BAYES, Ryan (University of Glasgow)

Contribution ID: 9

Type: **not specified**

Physics requirements for the Near detector

Saturday 30 July 2011 10:20 (40 minutes)

Presenter: TSENOV, Roumen (University of Sofia)

Contribution ID: 10

Type: **not specified**

Neutrino flux monitoring by CC and NC scattering off electrons in a high resolution scintillating fibres tracker (design options and results from simulations)

Sunday 31 July 2011 15:00 (45 minutes)

Presenter: MATEV, Rosen (Universsity of Sofia)

Contribution ID: 11

Type: **not specified**

Neutrino flux monitoring by CC and NC scattering off electrons in a high resolution Straw Tube tracker (HiResMv)

Sunday 31 July 2011 10:00 (1h 15m)

by phone

Presenter: MISHRA, Sanjib

Contribution ID: 12

Type: **not specified**

Photon transport simulations in long scintillating bars and fibres and some measurements

Sunday 31 July 2011 16:15 (40 minutes)

Presenter: PAHLKA, Benton (Fermilab)

Contribution ID: 13

Type: **not specified**

Requirements and design options for a vertex detector (Si tracker)

Sunday 31 July 2011 16:55 (30 minutes)

Presenter: SOLER, Paul (University of Glasgow)

Contribution ID: 14

Type: **not specified**

Near detector work breakdown structure (WBS) and costing

Sunday 31 July 2011 17:25 (30 minutes)

Presenter: SOLER, Paul (University of Glasgow)

Contribution ID: 15

Type: **not specified**

Introduction and goals of the Workshop

Saturday 30 July 2011 10:00 (20 minutes)

Presenter: TSENOV, Roumen (Faculty of Physics-University of Sofia)

Contribution ID: **16**

Type: **not specified**

Discussion: Near detector requirements