



NBI 2012

8th International Workshop on Neutrino Beams and Instrumentation

6th – 10th November 2012
CERN, Geneva, Switzerland

Second Bulletin

The 8th Neutrino Beams and Instrumentation Workshop is scheduled to take place at CERN from 6th to 10th November 2012. The NBI series workshops started in 1999 and since established as the forum where Neutrino Beam specialists gather together to collect, review and share design and operational experience of the increasingly challenging accelerator neutrino beams for short or long baseline detectors.

The scientific program includes sessions on:

- Reports from current and planning of future projects
- Primary and secondary beam lines
- Target design and operation experiences
- Horn design and operation
- Radiation Protection, radioactive component handling and waste treatment
- Remote handling and installation maintenance

Workshop Webpage – Scientific Program

Please check regularly the Workshop webpage for the most updated information: www.cern.ch/NBI2012. There you will find the names of the Local Organizing Committee members as well as the Regional Liaison members and the most up-to-date program. You can also find in there the conference poster that you should feel free to print and post.

The scientific program, at its present version, is available in the workshop web and attached in this bulletin. If you want to propose additional talks please contact the LOC or any of the Regional Liaisons.

Important Dates

The registration deadline is extended to September 28th. Please register asap if you haven't done so and arrange the payment of the fees by October 1st.

Registration deadline¹: ~~21st September 2012~~ 28th September 2012

Payment deadline: 1st October 2012

Registration cancellation with full refund: 10th October 2012

Registration

Registration is open and we kindly ask you to complete the online registration as soon as possible. The registration fee for participants is CHF 450, details and payment options are available in the workshop web.

Accompanying persons must also be registered as well if stay at CERN or want to enter CERN to issue an access card. Fee payment details will be communicated directly, please proceed as instructed in the web pages.

Any changes and cancellations must be communicated in writing to:
NBI2012.workshop@cern.ch.

WIFI Access

Please note that for security reasons you are requested to register your laptop if you want to make use of it at CERN. You are strongly advised to do so in advance, through CERN's [External Visitor's Computer Registration form](#).

Please register as contact person:

Name: Efthymiopoulos

First name: Ilias

Department: EN

Group: MEF

Accommodation

A number of rooms (70) have been reserved between the 6th November 2011 and 11th November 2012 in the CERN hostel. The deadline for booking is 1st October 2012. No rooms will be guaranteed after this date. Bookings MUST be made through the registration form. Payment is NOT included in the registration fee; it should be done directly at the Hostel.

Transport, general information

Please refer to the website, under General Information, for details about transport between Geneva Airport, and CERN and in the Geneva area.

Accessing CERN

Participants who do not already have a CERN access pass should request an access card through the registration form. You will be able to collect it from the reception, building 33 during its opening hours between 8:00 and 17:45. For arrival outside working hours: please ask the guardian at the main entrance B.

Practical information about Geneva

The currency is the Swiss Franc (CHF) and the current exchange rate is approximately 1CHF~1USD~0.85 Euro. At CERN and many places, Euros are also accepted.

Electric plugs are Swiss type (<http://www.travel-images.com/electric-plugs.html>) three round prongs type J, and require a special adaptor, but the two round prong basic French plugs type C

¹ All deadlines refer to 17h00 pm of the same date, local Geneva-Switzerland time.

will work if ground is not needed.

Looking forward to seeing you in Geneva!

Ilias Efthymiopoulos, Edda Gschwendtner and the NBI2012 Local Organizing Committee

NBI2012 programm version 4.1 22 September 2012

title

Tuesday 6 November 2012

Registration and Welcome Drink

Wednesday, 7 November 2012

Welcome

Welcome

Opening presentation

Project Status and Overview

T2K Operation summary (earthquake recovery+beamline survey)

NuMI Operation summary 2005-2012

MiniBOOnE Operation summary

CNGS Operation summary

Discussion

Coffee break

Future Projects

High power apparatus at J-PARC hadron experimental facility

J-PARC upgrade plan/Future LBL experiment in Japan

Fermilab Neutrino Beams & Experiments: 2013-2020

LBNE design overview and progress

Discussions

Lunch

Future Projects

LBNO project overview and prospects

Challenges of a High-Power Conventional Neutrino beam for very long-baselines - CN2PY Example

SBL2NA beam overview

NuSTORM, le-NUFACT: synergies with LBL 'technology'

Discussion

Coffee Break

Primary Beam Line Instrumentation

Proton beam monitoring and control: NuMI to LBNE

T2K proton beam monitoring

CNGS instrumentation and timing

T2K OTR system

Discussion

Fresh Air Break

Secondary Beam Line Instrumentation

Secondary beam monitoring: NuMI to LBNE

T2K muon monitors

Precision measurements at CNGS

T2K decay volume/beam dump commissioning/operational experience
Discussion

Social Dinner

Thursday, 8 November 2012

Targets

Recent experience with NuMI graphite targets and dumps
Performance and operational feedback of T2K graphite target
CNGS target operation and modified design
Fermilab High power target program: status and plan
Discussion

Coffee Break

Targets

High intensity beam test of beryllium for target and beam window
Radiation damage studies on graphite and beryllium
HiRadMat: a facility for target/material testing
Granular target and tests at HiRadMat
Granular target and tests at HiRadMat - CFD Simulations
Discussion

Lunch

Horns

CERN horn experience
T2K horn operational experience
Horn design for NuMI, NOvA and LBNE
New T2K horn
T2K horn field measurements
Discussion

Coffee Break

Horns

Fatigue studies for horns
Power supply for high-frequency pulsing for SB
4-in-one horn design for high-power SB
Discussions

Fresh Air Break

CERN Tour

Friday, 9 November 2012

Radiation Protection issues:

CNGS operation and environmental issues
NuMI experience with Tritium
T2K radioactive drainage treatment
T2K radioactivity in the exhaust air
Discussion

Coffee Break

Radiation Protection issues:

Radiation protection challenges for deep underground vs shallow beams
Target chase, decay and absorber cooling for LBNE
ACTIWIZ material database
Discussion

Lunch

Excursion

Saturday, 10 November 2012

Remote handling

Remote handling experiences at NuMI
T2K remote handling
Remote handling for the Super Beam Target station
Remote handling activities at CERN
Lessons learned from WANF dismantling
Discussion

Coffee Break

Summary

Summary talk
Next NBI announcement