

23 January 2008

Report from the OPERA PTB

A. Ereditato
LHEP - University of Bern

On behalf of the PTB:
(D. Autiero, A.E., L. Stanco, G. Wilquet)

- PTB update since November 2007
- The PTB has worked on:
 - New publications
 - Conferences (OPERA speakers at the main conferences)
 - Conference/Publication database
 - Starting activities towards a new WEB infrastructure

New publication (1):

OPERA detector paper

- Editors (Giovanni de Lellis, Francesco Terranova)
- PTB contacts (Dario Autiero, Luca Stanco)
- Internal referees (Mario Spinetti, Nakamura-san)
- Status (see next pages)

Introduction: De Lellis and Terranova 4 pages

General Description: Terranova and Autiero 2 pages, DESCRIPTION: OK, ALIGNMENT:

The OPERA brick [8 pages]:

- a) Emulsion film features (large scale production, handling refreshing) Ariga, 3 pages,
- b) Lead specifications and production, Sirignano, 1 page,
- c) Brick description with CS, De Lellis 1 page,
- d) The Brick Assembly Machine, Napolitano, 3 pages, **TO BE DONE**

The target area [8 pages]:

- a) The wall structure: description and installation, Napolitano, 1 page, **TO BE DONE**
- b) The BMS, Duchesneau, 3 pages **TO BE DONE**
- c) The scintillator trackers, Jollet, 3 pages, OK
- d) The Veto, Di Giovanni, 1 page, OK

The magnetic spectrometer [8 pages]:

- a) The magnets, Terranova, 1 page, OK
- b) The RPC-XPC, Dusini, 4 pages, OK
- c) The HPT, Zimmerman, 3 pages, OK

Data acquisition system and software tools [4 pages]:

- a) DAQ and GPS, Marteau and Autiero, 3 pages, **GPS TO BE DONE**
- b) Software tools, Terranova, 1 page, OK

Emulsion handling [8 pages]:

- a) Brick extraction and film development, Sirignano, 3 pages,
- b) Emulsion scanning systems and methods, De Lellis, 5 pages, **TO BE DONE**

Conclusions and Status of the experiment, De Lellis and Terranova, 2 pages, **TO BE DONE**

First complete draft to PTB by end January (?). To the Collaboration by end February (?).

New publication (2):

Measurements of the α - and β -radioactivity of the OPERA lead

- Advanced draft available
- Giorgio Giacomelli/Laura Patrizii Editors
- Interaction with and report from PTB referees (Andreas Badertscher, Henri Pessard)
- Next steps:
 - 1) PTB review (paper in their hands by January 31)
 - 2) OPERA internal note
 - 3) comments from the Collaboration
 - 4) final editing from PTB + referees, to be followed by final version of the paper (dead line February 2008 ?)

New publication (3):

The CS system of the OPERA experiment

- First draft available (presented to the PTB by Ariga-san)
- Ariga-san, Lillo Esposito and Gianni Rosa Editors
- Paolo Strolin internal referee

New publication (4):

Results from the 2007 run

- Goal: publish “uncontroversial” results from the 2007 run (~ before the 2008 run)
- Pasquale Migliozzi, Sato-san, Luca Stanco Editors
- Goal: first draft within ~ 1 month
- Paper format: short letter to Phys. Lett. or equivalent journal

Conference talks and proceedings:

Database of past presentations, speakers, proceedings, ... (Gaston Wilquet)

Urgent from the Physics Coordination: Conference Speaker Kit...

Additional Procedures for Conference Presentations

This document complements and further specifies the procedures defined in article 5.5 of the OPERA constitution regarding the presentations to conferences.

Rules applicable to personal invitations to speak about a subject of whom OPERA constitutes the main topic:

1. Anyone receiving a personal invitation to an international conference to speak about a subject of whom OPERA constitutes the main topic must inform the PTB.
2. The choice of the speaker will be made by the PTB. Within the general rules of fair sharing of the presentations between individuals and institutions, priority will be given to the invited.

Rules applicable to presentations on OPERA detector technologies and data analysis techniques:

3. The contents of the presentation, the authors list and the choice of the speaker will be handled within the technical project or physics working group under the supervision of its Leader or its Coordinator.
4. In case of conflict on the choice of the speaker or the authors, the PTB will act as mediator.

Rules applicable to all presentations:

5. Speakers must make the slides of their talks available to the PTB at least one week before the first day of the conference. The PTB will take care of making the slides available to the entire Collaboration (article 5.5.e).
6. Speakers must provide a preprint of their contribution to the conference proceedings to the PTB as soon as available. If existing, the URL where the preprint is available must be communicated to the PTB.
7. Speakers must provide the reference of their contribution to the conference proceedings to the PTB as soon as available. A reprint must be provided if it departs from the preprint in any significant way.

Speakers not conforming to these rules may not speak in the name of the OPERA Collaboration and may only use material made public by the Collaboration.

These rules do not apply to presentations made by the Spokesperson when speaking ex officio.

Conference/speakers from 2003

Conference	Class	Place	Date	Speaker
NUFACT 2007	Coll	Okayama, Japan	06/08/2007	Ariga, A.
Rencontres de Physique	Coll	La Thuile, Italy	04/03/2007	Autiero D.
NU 2004	Coll	Paris, France	11/08/2004	Autiero, D.
ICATPP 2007	Coll	Como, Italy	08/10/2007	Bozza, C.
ICATPP 2003	Coll	Como, Italy	01/10/2003	Brugnera R.
HEP2003	Coll	Aachen, Germany	17/06/2003	Campagne J.-E.
PHOTON 2005 and PLC 2005	Coll	Warsaw and Kazimierz, Poland	30/08/2005	Ciesielski R.
IMAGING 2003	Coll	Stockholm, Sweden	23/05/2003	D'Ambrosio N.
NUFACT 2006	Coll	Irvine, USA	24/08/2006	De Lellis G.
Imaging 2006	Pers	Stockholm, Sweden	27/08/2006	De Lellis G.
NuFact 2005	Pers	Frascati, Italy	21/08/2005	De Lellis G.
TAU 2006	Coll	Pisa, Italy	21/09/2006	De Serio M.
WIN 2005	Coll	Delphi, Greece	16/08/2005	De Serio M.
AHEP 2003	Coll	Valencia, Spain	01/10/2003	De Serio M.
NOW 2006	Pers	Otranto, Italy	09/09/2006	Declais Y.
HEP-EPS 2005	Coll	Lisboa, Portugal	21/07/2005	Di Capua F.
NANP 2003	Coll	Dubna, Russia	23/08/2003	Dracos M.
TAUP 2003	Coll	Seattle, USA	01/09/2003	Duchesneau D.
ICATPP 2005	Coll	Como, Italy	17/10/2005	Dusini S.
FDFP 2003	Coll	Isola d'Elba, Italy	25/05/2003	Dusini S.
Vulcano workshop 2006	Coll	Vulcano, Italy	22/05/2006	Giacomelli G.
ICHEP 2006	Coll	Moscow, Russia	26/07/2006	Gornushkin Y.
Vietnam 2006	Coll	Hanoi, Vietnam	06/08/2006	Guler A.M.
TAUP 2005	Coll	Zaragoza, Spain	10/09/2005	Gustavino C.
TAUP 2007	Coll	Sendai, Japan	11/09/2007	Jollet C.
NANP 2005	Coll	Dubna, Russia	20/06/2005	Jollet C.
NUFACT 2003	Coll	New York, USA	05/08/2003	Kodama K.
NOONE 2004	Coll	Tokyo, Japan	11/02/2004	Komatsu, M.
	Nov-03	Venice, Italy	03/12/2003	Kreslo I.
Miami 2007	Coll	Ford Lauderdale, USA		Marotta A.
Monfond 2007	Coll	La Thuile, Italy	11/03/2007	Marteau J.
NuFact 2005	Pers	Frascati, Italy	21/08/2005	Migliozzi P.
NOVE 2007	Pers	Venice, Italy	08/03/2007	Muciaccia M.T., De Serio M.
NUFACT 2007	Coll	Okayama, Japan	06/08/2007	Nakamura M.
Pacific Region Joint Meeting	Coll	Honolulu, USA	29/10/2006	Nakamura M.
NUFACT 2004	Coll	Osaka, Japan	26/07/2004	Nakamura M.
NOONE 2003	Coll	Kanazawa, Japan	11/02/2003	Nakamura M.
Pacific Region Joint Meeting	Coll	Honolulu, USA	29/10/2006	Nakano T.
Four-Seas 2007	Coll.	Iasi, Romania	29/05/2007	Paoloni A.
ICHEP 2004	Coll	Beijing, China	16/08/2004	Pessard H.
NOW 2004	Coll	Otranto, Italy	11/09/2004	Rosa G.
KTC 2007	Coll	Tsukuba, Japan	08/02/2007	Sato O.
DBD 2007	Coll	Osaka, Japan	13/08/2007	Sato O.
Lomonosov 2005	Coll	Moscow, Russia	25/08/2005	Savvinov N.
IFAE 2006	Coll	Pavia, Italy	19/04/2006	Sioli M.
NOW 2006	Coll	Otranto, Italy	09/09/2006	Sioli M.
Terrestrial and Cosmic Neutrinos, Leptogenesis and Cosmology 2004	Coll	Benasque, Spain	04/07/2004	Sioli M.
Neutrino 2006	Coll	Santa Fe, USA	13/08/2006	Sirignano C.
IPRD 2006	Pers	Siena, Italy	01/10/2006	Siri G.
NNN 2007	Coll	Hamamatsu, Japan	02/10/2007	Spinetti M.
Aspen 2007	Coll	Aspen USA	28/01/2007	Stanco L.
WIN 2007	Coll	Kolkata, India	15/01/2007	Terranova F.
HEP 2007	Coll	Manchester, GBR	19/07/2007	Wilquet, G.
Epiphany 2006	Coll	Cracow, Poland	08/01/2006	Zimmermann R.

Future main conferences (preliminary list)

- La Thuile (Italy), 25 February 2008
- Moriond (France-Italy) 1-8 March 2008
- Milos (Greece) 29-23 May 2008
- NEUTRINO 08, Christchurch (N. Zealand), 25-31 May 2008
- Physics in Collisions, Perugia (Italy), 25-28 June 2008
- NUFACT 08, Valencia (Spain), 30 June - 4 July 2008
- ICRC, Lodz (Poland), 8-15 July 2008
- ICHEP, Philadelphia (USA), 30 July - 5 August 2008
- ...

A. Garfagnini (Padova)

C. Pistillo (Bern)

“european”

G. Rosa (Roma)

Re-organization of the OPERA web site

During the last weeks it emerged the possibility of implementing at LNGS a dedicated web server machine. This new machine would be at the state of the art performance with large disk space and automated backup system. It would be integrated in the counting room environment, sharing the fast network connection and profiting of direct maintenance from OPERA people, as for the other machines belonging to the online cluster.

The new web server at LNGS has the clear advantage of centralizing the web resources, which are currently spread in many sites in a safe and more easily manageable environment. In addition it would provide as well the opportunity of a general reshaping the OPERA web site, by incorporating some modern and easy to use tools that in the last years became a standard in HEP collaborations.

The present situation of the OPERA web is the following:

- a) The OPERA web site at CERN is based on a MS Windows proprietary technology. It implies a lot of technical problems. It is difficult to manage it and, from the point of view of the users, it is difficult to interact with it and to edit the pages in order to insert new information. This web site cannot be exported on a Linux machine, as the one foreseen for the web server at LNGS.
- b) The WIKI pages implemented in Naples are currently used by the physics working groups. They are easy to edit and they have been successfully used in the last months for fast exchange of information for the analysis. The technical and hardware resources to follow the evolution with time of this system are currently not available in Naples.
- c) The files containing the presentations given at the past collaboration meetings are spread out on many sites in the world, with the risk of losing this information soon or later.
- d) A note server facility runs at Technion, as well as a tool for the conferences presentations.

STATUS (11/07):

Hardware + web server software installed at LNGS and used for last run documentation:
opera.lngs.infn.it

Templates for full implementation prepared

To be finalized in two months

Related issue:
Diploma/Laurea/PhD theses repository
Publication repository