

3rd International Workshop on
Neutrino
Beams and
Instrumentation



Registration / Meeting Point: Wednesday, 13 March, 18:00-19:00, cafeteria building 501

Registration: Thursday, 14 March 09:00-10:00, outside the meeting room 40-SS-D01

COFFEE: 09:30, building 40, main lobby

Overview Session **Thursday, 14 March, 10:00-12:35** **room 40-SS-D01** chairperson: K. Huebner

	Title	Speaker		Time
1	Welcome	Carlo Wyss	CERN	5 mins
2	Physics reach of present and future long-baseline neutrino beams	Mauro Mezzetto	INFN	30 + 5 mins
3	K2K Overview	Kazuhiro Tanaka	KEK	20 + 5 mins
4	MiniBOONE Overview	Peter Kasper	Fermilab	20 + 5 mins
5	NuMI Overview	Sam Childress	Fermilab	20 + 5 mins
6	CNGS Overview	Konrad Elsener	CERN	15 + 5 mins
7	JHF-nu Overview	Takashi Kobayashi	KEK	15 + 5 mins

LUNCH

Target and Horns **Thursday, 14 March, 14:00-16:00** **room 40-SS-D01** chairperson: A.E Ball

	Title	Speaker		Time
1	Power Supplies and power lines of K2K magnetic horns	Yoshinori Suzuki	KEK	20 + 10 mins
2	Magnetic horns and target of K2K	Yutaka Yamanoi	KEK	20 + 10 mins
3	NuMI horns and horn tests	Jim Hylan	Fermilab	20 + 10 mins
4	NuMI target hall	Jim Hylan	Fermilab	20 + 10 mins

CERN Seminar, Prof. K. Nishikawa 14 March 16:30 Main Auditorium buidlg 500 (coffee + tea being served 16:00)

wine tasting / snack **14 March 18:30** (departure: 18:00 from room 40-SS-D01)



Target and Horns (cont.) **Friday, 15 March, 09:00-12:00** **room 40-SS-D01** chairperson: J.M. Maugain

5	NuMI target (prototyping, tests and design issues)	Vaerli Garkusha	IHEP Protvino	20 + 10 mins
6	MiniBooNE horn	Ioanis Kourbanis	Fermilab	30 + 15 mins
	COFFEE BREAK (Building 40 - main lobby)			30 mins
7	CNGS target development	Luca Bruno	CERN	20 + 10 mins
8	Magnetic horn design for CNGS	Sandry Wallon	CNRS, Paris	20 + 10 mins

LUNCH

Decay Tube, beam dump **Friday, 15 March, 13:30-16:00** **room 40-SS-D01** chairperson: K. Elsener

	Title	Speaker		Time
1	CNGS decay pipe: heating and radiological issues	Heinz Vincke	CERN	10 + 5 mins
2	CNGS decay pipe windows	Roger Valbuena	CERN	10 + 5 mins
3	Beam dumps at CERN neutrino beams	Alan Grant	CERN	20 + 5 mins
4	Beam dump heat calculations	Barbara Calcagno	CERN	10 + 5 mins
5	NuMI decay pipe and hadron stop	Jim Hysten	Fermilab	10 + 5 mins
6	MiniBoone decay pipe and hadron stop	Eric Zimmermann	Univ of Colorado	10 + 5 mins
7	Design and operation of K2K decay volume / beam dump	Yoshinori Sato	KEK	15 + 5 mins
8	Design and radiation shielding of decay pipe / beam dump at JHF	Yuichi Oyama	KEK	10 + 5 mins
9	Simulation of heat load at JHF decay pipe and beam dump	Yoshinari Hayato	KEK	10 + 5 mins
	COFFEE BREAK (Building 40 - main lobby)			30 mins

VISITS at CERN **Friday 15 March 16:30-18:00** (departure from room 40-SS-D01)

Cheese Fondue (departure 18:30 from room 40-SS-D01)



DAY OFF (EXCURSIONS / SHOPPING / DISCUSSIONS) Saturday, 16 March all day

Hadron production + simulations Sunday, 17 March, 09:00-12:00 room 40-SS-D01 chairperson: P. Kasper

	Title	Speaker	Time
1	A short review of hadroproduction data useful for neutrino beam calculations	Maurizio Bonesini INFN Milano	25 + 5 mins
2	HARP experiment status and prospects for future neutrino beams, K2K and MiniBooNE	Alberto Guglielmi INFN Padova	25 + 5 mins
3	P907: Experiment status	Mark Messier Harvard	15 + 5 mins
4	New analysis techniques to reduce systematics due to uncertainties in the hadroproduction spectra and other beam related issues	Michael Szeleper Northwestern	20 + 5 mins
COFFEE BREAK Cafeteria No. 1, building 501			30 mins
5	Latest news on FLUKA simulations for the CNGS beam	Paola Sala ETH Zurich	20 + 5 mins
6	Latest news on K2K simulation and comparison with data	Takashi Kobayashi KEK	20 + 5 mins
7	Latest news on NuMI beam simulations	Mark Messier Harvard	20 + 5 mins

LUNCH

Secondary Beam Monitoring Sunday, 17 March, 14:00-17:30 room 40-SS-D01 chairperson: M. Velasco

	Title	Speaker	Time
1	Targeting Monitor in K2K	Hiroyuki Noumi KEK	20 + 5 mins
2	Secondary beam monitoring at K2K experiment	Tsuyoshi Nakaya Kyoto	20 + 5 mins
3	Neutrino Beam Monitoring with Ion Chambers at NuMI	Sacha E. Kopp Univ. of Texas	30 + 5 mins
4	Characteristics and Production of Gas Sealed, Radiation Hard Small Ionization Chamber	Gianni Tassotto Fermilab	25 + 5 mins
COFFEE BREAK Cafeteria No. 1, building 501			30 mins
5	Monitoring Kaon Decays in the BooNE Secondary Beam	Eric Zimmerman Univ of Colorado	25 + 5 mins
6	CNGS muon station based on Beam Lost Monitor type detectors	Valeri Falaleev CERN	20 + 5 mins
7	Sensitivity of CNGS muon detector based on BLM's to beam-line misalignments	Francesco Pietropaolo INFN Padova	20 + 5 mins



Proton Beam, Rad. Protection Monday, 18 March, 08:30-11:55 room 40-SS-D01 chairperson: G. Stevenson

	Title	Speaker	Time
1	Proton Beam for MiniBooNE and NuMI	Sam Childress Fermilab	25 + 10 mins
2	Proton Beam for K2K	Hiroyuki Noumi KEK	15 + 5 mins
3	Proton Beam for JHF neutrino	Atsuko Ichikawa Kyoto	10 + 5 mins
4	Proton Beam for CNGS:	Malika Meddahi CERN	5
		Jan Uythoven CERN	10
		Hermann Schmickler CERN	10
		Willi Kalbreier CERN	10 + 10 mins
	COFFEE BREAK (Building 40 - main lobby)		30 mins
		chairperson: M. Meddahi	
5	Development of radiation resistant magnets in KEK	Erina Kusano KEK	10 + 5 mins
6	Radiation Protection for K2K	Yoshinori Sato KEK	15 + 5 mins
7	Radiation Protection for Mini-Boone and NuMI	Sam Childress Fermilab	20 + 5 mins
8	Radiation Protection for WANF and CNGS	Graham Stevenson CERN	20 + 5 mins

LUNCH

Future Beams, Closing Remarks Monday, 18 March, 14:00-17:30 room 40-SS-D01 chairperson:

	Title	Speaker	Time
1	NuMI off axis beams	Mayda Velasco Northwestern	30 + 5 mins
2	Hadron Hose: Continuous Toroidal Focusing for Conventional v Beams	Sacha E. Kopp Univ. of Texas	20 + 5 mins
3	Target R&D for JHF neutrino	Yoshinari Hayato KEK	10 + 5 mins
4	Superbeams with SPL at CERN	Maurizio Vretenar CERN	20 + 5 mins
	COFFEE BREAK (Building 40 - main lobby)		30 mins
5	Horn prototype for neutrino factory	Stephane Rangod CERN	15 + 5 mins
6	Target studies for neutrino factory	Jacques Lettry CERN	15 + 5 mins
7	beta-beams	Piero Zuchelli CERN	30 + 5 mins
8	Closing Remarks	(?)	5

WORKSHOP DINNER, Restaurant Le Coq Rouge, St. Genis:
(departure 19:15 from room 40-SS-D02)

Monday 18 March 19:30