

# **NuFact'11 XIIIth Workshop on Neutrino Factories, Superbeams and Beta-beams**

**Monday 01 August 2011 - Saturday 06 August 2011**

## **Programme**

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# Monday 01 August 2011

## **Plenary: Session #1 - Filtration Plant (08:30-12:30)**

time	[id] title	presenter
08:30	[1] Registration	
09:00	[15] Welcome - CERN	EFTHYMIOPOULOS, Ilias
09:10	[0] Welcome address by CERN Director	HEUER, Rolf
09:30	[5] Scientific goals of the workshop	BLONDEL, Alain
09:45	[2] Experimental Status of Neutrino Physics	WARK, Dave
10:15	Coffee break	
10:35	[4] Accelerators for Future Neutrino Facilities: strengths & challenges	ZISMAN, Michael
11:10	[16] WG1 conveners: set the scene	Dr. VAHLE, Tricia SCHWETZ-MANGOLD, Thomas Dr. NAKADAIRA, Takeshi
11:30	[19] WG4 conveners: set the scene	BERNSTEIN, robert Dr. NICOLO, Donato Dr. SAITO, Naohito
11:50	[17] WG2 conveners: set the scene	Dr. KORDOSKY, Micheal YOKOYAMA, Masashi Dr. NIEVES PAMPLONA, Juan Miguel
12:10	[18] WG3 conveners: set the scene	BOGACZ, Alex Dr. WILDNER, Elena Dr. YOSHIDA, Makoto

## **WG1 Neutrino Oscillation Physics - Filtration Plant (14:00-15:30)**

- Conveners: Prof. Vahle, Tricia; Dr. Nakadaira, Takeshi; Schwetz-Mangold, Thomas

## **WG2 Neutrino Cross-Sections and Detectors - Room C (14:00-15:30)**

- Conveners: Prof. Nieves, Juan M.; Dr. kordosky, Michael; Dr. Yokoyama, Masashi

## **WG3 Accelerator physics - Council Chamber (14:00-15:30)**

- Conveners: Bogacz, Alex; wildner, elena

## **WG4 Muon Physics and other High Intensity applications - Room Georges Charpak (Room F) (14:00-15:30)**

- Conveners: bernstein, robert; Nicolo, Donato

## **Plenary: Session #2 - Main Auditorium (16:00-18:30)**

time	[id] title	presenter
16:00	[20] LHC and the Neutrino Paradigm	Goran Senjanovic
17:00	[21] Future Neutrino Facilities in the Global Physics Environment	ELLIS, Jonathan R.

## **Welcome Drink and Poster Session - (18:30-21:30)**

## Tuesday 02 August 2011

### **Plenary: Session #3 - Main Auditorium (09:00-12:00)**

time	[id]	title	presenter
09:00	[56]	Welcome - University of Geneva	BLONDEL, Alain
09:15	[22]	Neutinos and the Universe	Prof. MAVROMATOS, Nikolaos
09:50	[23]	T2K Results and Future Plans	DI LODOVICO, Francesca
10:15	[24]	CNGS: Overview and Future Prospects	Prof. EREDITATO, Antonio
10:40		Coffee break	
11:10	[25]	MINOS, MINOS+, NOvA: Overview and Future Prospects	HARTNELL, Jeff
11:35	[26]	Challenges of Future Neutrino Oscillation Physics	SMIRNOV, Alexei

### **WG1 Neutrino Oscillation Physics - (13:30-15:30)**

- Conveners: Prof. Vahle, Tricia; Dr. Nakadaira, Takeshi; Schwetz-Mangold, Thomas

### **WG2 Neutrino Cross-Sections and Detectors - (13:30-15:30)**

- Conveners: Prof. Nieves, Juan M.; Dr. kordosky, Michael; Dr. Yokoyama, Masashi

### **WG3 Accelerator physics - (13:30-15:30)**

- Conveners: Bogacz, Alex; wildner, elena

### **WG4 Muon Physics and other High Intensity applications - (13:30-15:30)**

- Conveners: bernstein, robert; Nicolo, Donato; Naohito, Saito

### **Plenary: Session #4 - Main Auditorium (16:00-18:30)**

time	[id]	title	presenter
16:00	[27]	Neutrino Masses and Mixing vs Grand Unified Theories	MOHAPATRA, Rabindra
16:25	[28]	Accelerator Based Neutrino Oscillation Projects in Japan Beyond T2K	Dr. KAKUNO, Hidekazu
16:50	[29]	Long-baseline Neutrino Beam Options at CERN	
17:15	[30]	Long-Baseline Neutrino Beams at FNAL	CHILDRESS, Samuel R.
17:40	[31]	(M)MW Target and Horn for Neutrino Super-Beams	DENSHAM, Chris

### **Poster Session - (18:30-20:00)**

### **Evening Public lecture - Main Auditorium (20:00-22:00)**

time	[id]	title	presenter
20:00	[57]	Physics & Music Public Evening	
20:40	[58]	Evening Public Lecture (in French)	Prof. RUBBIA, Andre

## Wednesday 03 August 2011

### Plenary: Session #5 - Main Auditorium (09:00-10:40)

time	[id]	title	presenter
09:00	[32]	Review of Present and Future Reactor Neutrino Experiments	
09:25	[33]	Phenomenology talk on Sterile Neutrinos	GIUNTI, Carlo
09:50	[34]	An Experiment at the CERN PS Neutrino Beam	
10:15	[35]	Future Short-baseline Physics at FermiLab	LOUIS, Bill

### WG1 Neutrino Oscillation Physics - (11:00-12:30)

- Conveners: Prof. Vahle, Tricia; Dr. Nakadaira, Takeshi; Schwetz-Mangold, Thomas

### WG2 Neutrino Cross-Sections and Detectors - (11:00-12:30)

- Conveners: Prof. Nieves, Juan M.; Dr. Kordosky, Michael; Dr. Yokoyama, Masashi

### WG3 Accelerator physics - (11:00-12:30)

- Conveners: Bogacz, Alex; Wildner, Elena

### WG4 Muon Physics and other High Intensity applications - (11:00-12:30)

- Conveners: Bernstein, Robert; Nicolo, Donato; Naohito, Saito

### WG1 Neutrino Oscillation Physics - (14:00-16:00)

- Conveners: Prof. Vahle, Tricia; Dr. Nakadaira, Takeshi; Schwetz-Mangold, Thomas

### WG2 Neutrino Cross-Sections and Detectors - (14:00-16:00)

- Conveners: Prof. Nieves, Juan M.; Dr. Kordosky, Michael; Dr. Yokoyama, Masashi

### WG3 Accelerator physics - (14:00-16:00)

- Conveners: Bogacz, Alex; Wildner, Elena

### WG4 Muon Physics and other High Intensity applications - (14:00-16:00)

- Conveners: Bernstein, Robert; Nicolo, Donato; Naohito, Saito

### Geneva visits - (16:30-19:00)

### Conference Dinner - (19:00-22:00)

## Thursday 04 August 2011

### Plenary: Session #6 - Main Auditorium (09:00-10:40)

time	[id]	title	presenter
09:00	[37]	Future RandD Experiments for SB, NF & BB	
09:25	[38]	Impact of Neutrino Scattering Physics on Neutrino Oscillation Experiments	NELSON, Jeff
09:50	[39]	Detectors for the Next Generation of Neutrino Beams	MARCHIONNI, Alberto
10:15	[40]	Beam Monitoring and Near Detector Requirements for a NF or LBL beams	

### WG1 Neutrino Oscillation Physics - (11:00-12:30)

- Conveners: Prof. Vahle, Tricia; Dr. Nakadaira, Takeshi; Schwetz-Mangold, Thomas

### WG2 Neutrino Cross-Sections and Detectors - (11:00-12:30)

- Conveners: Prof. Nieves, Juan M.; Dr. kordosky, Michael; Dr. Yokoyama, Masashi

### WG3 Accelerator physics - (11:00-12:30)

- Conveners: Bogacz, Alex; wildner, elena

### WG4 Muon Physics and other High Intensity applications - (11:00-12:30)

- Conveners: bernstein, robert; Nicolo, Donato; Naohito, Saito

### WG1 Neutrino Oscillation Physics - (14:00-16:00)

- Conveners: Prof. Vahle, Tricia; Dr. Nakadaira, Takeshi; Schwetz-Mangold, Thomas

### WG2 Neutrino Cross-Sections and Detectors - (14:00-16:00)

- Conveners: Prof. Nieves, Juan M.; Dr. kordosky, Michael; Dr. Yokoyama, Masashi

### WG3 Accelerator physics - (14:00-16:00)

- Conveners: Bogacz, Alex; wildner, elena

### WG4 Muon Physics and other High Intensity applications - (14:00-16:00)

- Conveners: bernstein, robert; Nicolo, Donato; Naohito, Saito

### Plenary: Session #7 - Main Auditorium (16:30-18:30)

time	[id]	title	presenter
16:30	[41]	Status of Neutrino Factory Accelerator Design Studies	
16:55	[42]	MICE & MUCOOL Experiments - Status and Prospects	TORUN, Yagmur
17:20	[43]	Multi-MW Target and Capture Design for NF	MC DONALD, Kirk
17:55	[44]	EMMA - Recent Developments	MACHIDA, shinji

### Geneva visits- evening - (18:30-22:30)

### Programme Committee Meeting and dinner - (18:30-22:30)

## Friday 05 August 2011

### **Plenary: Session #8 - (09:00-12:10)**

time	[id] title	presenter
09:00	[45] Neutrino Physics Within and Beyond the Three Flavor Oscillation	
09:25	[46] Beta-beam Implementation at CERN	HANSEN, Christian
09:50	[47] Ion Production for Beta-beams	STORA, Thierry
10:15	Coffee break	
10:45	[48] Proton Drivers for Neutrino Beams and Other High-Intensity Applications	GAROBY, Roland
11:10	[49] Prospects for CLFV Experiments	MIHARA, Satoshi
11:35	[50] Towards a Muon Collider	

### **WG1 Neutrino Oscillation Physics - Filtration Plant (13:40-18:10)**

- Conveners: Prof. Vahle, Tricia; Dr. Nakadaira, Takeshi; Schwetz-Mangold, Thomas

### **WG2 Neutrino Cross-Sections and Detectors - Room C (13:40-18:00)**

- Conveners: Prof. Nieves, Juan M.; Dr. kordosky, Michael; Dr. Yokoyama, Masashi

### **WG3 Accelerator physics - (13:40-18:00)**

- Conveners: Bogacz, Alex; wildner, elena

### **WG4 Muon Physics and other High Intensity applications - (13:40-18:10)**

- Conveners: bernstein, robert; Nicolo, Donato; Naohito, Saito



## Saturday 06 August 2011

### **WG1 Neutrino Oscillation Physics - Filtration Plant (09:00-10:30)**

- Conveners: Prof. Vahle, Tricia; Dr. Nakadaira, Takeshi; Schwetz-Mangold, Thomas

### **WG2 Neutrino Cross-Sections and Detectors - Room C (09:00-10:30)**

- Conveners: Prof. Nieves, Juan M.; Dr. kordosky, Michael; Dr. Yokoyama, Masashi

### **WG3 Accelerator physics - (09:00-10:30)**

- Conveners: Bogacz, Alex; wildner, elena

### **WG4 Muon Physics and other High Intensity applications - (09:00-10:30)**

- Conveners: bernstein, robert; Nicolo, Donato; Naohito, Saito

### **Plenary: Session #9 - (11:00-13:00)**

time	[id]	title	presenter
11:00	[51]	WG1 - Summary Report	
11:25	[52]	WG2 - Summary Report	
11:50	[53]	WG3 - Summary Report	
12:15	[54]	WG4 - Summary Report	
12:40	[55]	Workshop Summary Talk	