

“FRONTIERS IN NEUTRINO PHYSICS” , 4-6 OCTOBER 2011

PROGRAM

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**TUESDAY morning (Amphithéâtre Buffon)**

9h00-9h15	<b>Welcome</b>	Stavros Katsanevas, IN2P3 Adjoint Director for " <i>Astroparticles and Neutrinos</i> "
9h15-10h15	Dario Autiero	"Measurement of the neutrino velocity with the OPERA detector in the CNGS beam"
10h15-11h00	<b>Discussion</b>	
11h00-11h30	COFFEE BREAK	
11h30-12h10	<i>Baha Balantekin</i>	"Current status of the neutrino physics and astrophysics"
12h10-12h50	<i>Mauro Mezzetto</i>	"Non-zero $\theta_{13}$ from T2K and its implications for future experiments"
12h50-14h00	LUNCH	

**TUESDAY afternoon (Salle KLEE, APC)**

14h00-14h40	<i>Gianluigi Fogli</i>	"Evidence of $\theta_{13} > 0$ from global neutrino data analysis"
14h40-15h20	<i>Aldo Serenelli</i>	"Unsolved problems in solar models and neutrinos"
15h20-16h00	<i>Anatael Cabrera</i>	"Double Chooz today: beyond 4000 Neutrino Candidates"
16h00-16h30	COFFEE BREAK	
16h30-17h10	<i>Jonathan Engel</i>	"Towards an improved double-beta-decay operator for the shell model"
17h10-17h50	<i>Gabriel Martinez-Pinedo</i>	"Towards a consistent description of neutrinoless double-beta decay matrix elements"
17h50-18h30	<i>Yamac Pehlivan</i>	"Analytical Methods in the Self Refraction of Neutrinos"

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*The time allocated to talks is of 30 minutes + 10 minutes discussion.*

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**WEDNESDAY (Salle KLEE)**

**Morning :**

- 9h15-9h55     *Mary Bishai*     “The Hunt for Matter/Anti-Matter Asymmetries in MINOS”
- 9h55-10h35   *Marco Martini*    ”Neutrino-nucleus cross sections at MiniBooNE and T2K energies“
- 10h35-11h05   **COFFEE BREAK**
- 11h05-11h45   *Janet Conrad*    ”DAEdALUS: A novel method to search for new physics”
- 11h45-12h25   *Luca Panizzi*    ”Superluminal neutrinos in long baseline experiments and SN1987a”
- 12h25-14h00   **LUNCH**

**Afternoon :**

- 14h00-14h40   *David Lhuillier*    ”Re-evaluation of antineutrino spectra from reactors”
- 14h40-15h20   *Petr Vogel*        ”How certain are we that the “reactor anomaly” is real? ”
- 15h20-16h00   *Thierry Lasserre*    ”The Reactor Antineutrino Anomaly: Status and Implications”
- 16h00-16h30   **COFFEE BREAK**
- 16h30-17h10   *Carlo Giunti*        ”Towards 3+1 Neutrino Mixing”
- 17h10-17h50   *Rimantas Lazauskas*    ”Some aspects of neutrino physics with radioactive ion beams
- 17h50-18h30   *Catalina Hernandez-Espinoza*    ”Leptonic CP Violation in Beta Beams and Monochromatic Beams”

**Workshop Dinner ”Chez Mellac”**

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**THURSDAY (Salle KLEE)**

**Morning :**

- 9h00-9h40 *Gail McLaughlin* “Neutrino-nucleus coherent scattering as a probe of the neutron density distribution in the nucleus”
- 9h40-10h20 *Manfred Lindner* “keV sterile Neutrinos as Dark Matter”
- 10h20-11h00 *Evgeny Akhmedov* “Sterile neutrinos and oscillation coherence for neutrinos produced in decays”
- 11h00-11h30 COFFEE BREAK
- 11h30-12h10 *Ion Stancu* ”Status of the Neutrino Oscillations Search at MiniBooNE”
- 12h10-12h50 *Francesco Vissani* ”SN1987A: was it what we expected?”
- 12h50-14h00 LUNCH

**Afternoon :**

- 14h00-14h40 *Yong-Zhong Qian* ”Analytic models of Collective Neutrino Oscillations”
- 14h40-15h20 *Alessandro Mirizzi* “New Developments in supernova neutrino oscillations”
- 15h20-15h40 COFFEE BREAK
- 15h40-16h10 *Daavid Väänänen* ”Supernova neutrino signal at Helium And Lead Observatory: Learning about the primary neutrino fluxes and neutrino properties”
- 16h10-16h50 *Rebecca Surman* ”Neutrinos and supernova nucleosynthesis”

**End of the workshop**

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