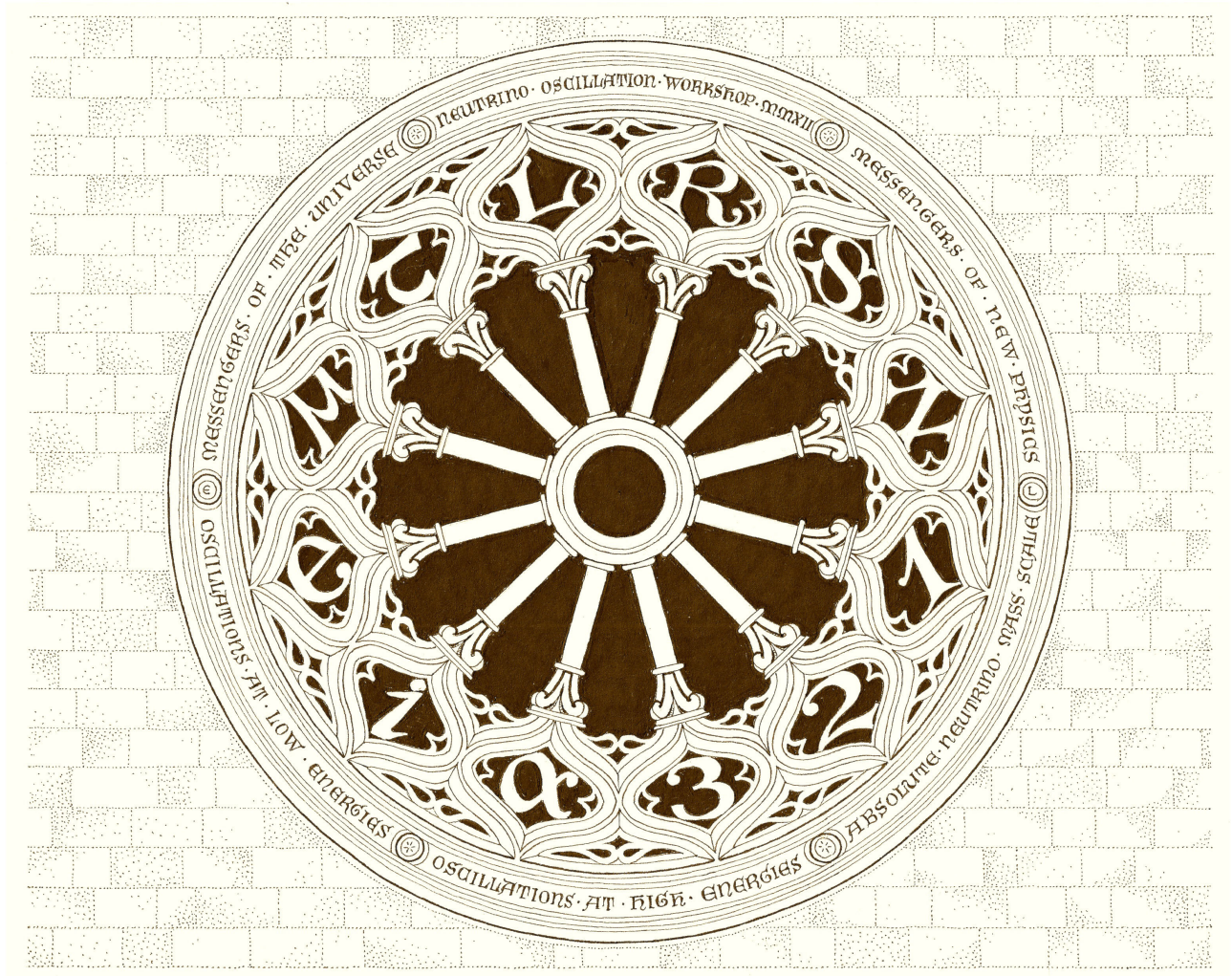


Scientific Program of NOW 2012



Neutrino Oscillation Workshop

Conca Specchiulla (Otranto, Italy)

September 9-16, 2012

Sunday 9

Arrival and Registration

Monday 10 Morning:

Session I (plenary): Absolute neutrino mass scale

Chair: Ettore Fiorini

Time	Speaker	Title
8.30 - 8.40	Gianluigi Fogli	<i>Welcome to NOW 2012</i>
8.40 - 9.15	Oliviero Cremonesi	<i>Experimental searches of neutrinoless double beta decay</i>
9.15 - 9.50	Werner Rodejohann	<i>Neutrinoless double beta decay and particle physics</i>
coffee break (20')		
10.10 - 10.45	Guido Drexlin	<i>Direct neutrino mass searches</i>
10.45 - 11.20	Alessandro Melchiorri	<i>Constraining neutrino physics with cosmology</i>
11.20 - 11.55	Serguey Petcov	<i>Leptogenesis and neutrino masses</i>

Afternoon:

Session I (parallel) Absolute neutrino mass scale

Conveners: [Silvia Capelli](#) and [Pasquale Di Bari](#)

Time	Speaker	Title
16.00-16.20	Francesco Iachello	<i>Review of NME Calculations</i>
16.20-16.40	Michael Duerr	<i>LNV new physics and neutrinoless double beta decay</i>
16.40-17.00	Phil Barbeau	<i>Recent results from EXO 200</i>
17.00-17.20	Junpei Shirai	<i>KamLAND-Zen: status and future</i>

Session IV (parallel) Messengers of the universe

Conveners: [Elisa Bernardini](#) and [Pasquale Serpico](#)

Time	Speaker	Title
16.00-16.20	Todor Stanev	<i>UHECR fluxes and cosmogenic neutrinos</i>
16.20-16.40	Sergio Navas	<i>Auger results</i>
16.40-17.00	Francesco Giordano	<i>Hadronic accelerators after Fermi</i>
17.00-17.20	Valter Bonvicini	<i>GAMMA-400</i>

coffee break (20')

17.40-18.00	Karl Tasso Knoepfle	<i>GERDA status and perspectives</i>	17.40-18.00	Alejandro Ibarra	<i>Neutrino Bounds on Dark Matter</i>
18.00-18.20	Paolo Gorla	<i>CUORE-0: first data and performances</i>	18.00-18.20	Piera Sapienza	<i>KM3NeT and sensitivity to point-like sources</i>
18.20-18.40	Kai Zuber	<i>COBRA</i>	18.20-18.40	Juan Aguilar	<i>Neutrino astronomy with IceCube</i>

Special Plenary Talk

Chair: Gianluigi Fogli

18.50-19.20	Paolo Strolin	<i>Volcanoes and muons</i>
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Tuesday 11 Morning:

Session II (plenary): Oscillations at low energies

Chair: Frank Avignone

Time	Speaker	Title
8.40 - 9.15	Xiaonan Li	<i>Daya Bay: results and perspectives</i>
9.15 - 9.50	Seon-Hee Seo	<i>RENO: results and perspectives</i>
coffee break (20')		
10.10 - 10.45	Arthur Franke	<i>Double Chooz: results and perspectives</i>
10.45 - 11.20	Aldo Ianni	<i>Neutrinos from the Sun and from radioactive sources</i>
11.20 - 11.55	Gianni Fiorentini	<i>Neutrino physics and Earth sciences</i>

Afternoon:

(Note early beginning of Sessions)

**Session II (parallel)
Oscillations at low energies**

Conveners: [Kate Scholberg](#) and [Francesco Villante](#)

Time	Speaker	Title
15.20-15.40	Giulia Pagliaroli	<i>Potential for SN neutrino observations</i>
15.40-16.00	Sovan Chakraborty	<i>SN neutrino oscillations</i>
16.00-16.20	Ronald Bruijn	<i>SN nu detection and low-E potential of IceCube</i>
16.20-16.40	Biagio Saitta	<i>New polarized detectors for low-E neutrinos</i>
16.40-17.00	Simon Peeters	<i>Status of SNO+</i>

**Session V (parallel)
Messengers of new physics**

Conveners: [Alessandra Tonazzo](#) and [Patrick Huber](#)

Time	Speaker	Title
15.20-15.40	Thomas Patzak	<i>MEMPHYS</i>
15.40-16.00	Michael Wurm	<i>LENA</i>
16.00-16.20	Alexander Studenikin	<i>Nu EM properties in extreme external conditions</i>
16.20-16.40	Massimo Blasone	<i>Entanglement in neutrino oscillations</i>
16.40-17.00	Isabella Masina	<i>Inflation from the SM Higgs false vacuum: Impact of nu's</i>

Excursion to Otranto (17.30 - 21.00)

Spaghetтата (21.30)

Wednesday 12 Morning:

Session III (plenary): Oscillations at high energies

Chair: Koichiro Nishikawa

Time	Speaker	Title
8.40 - 9.15	Gabriella Catanesi	<i>T2K results and perspectives</i>
9.15 - 9.50	Mathew Muether	<i>The NOvA experiment</i>
9.50 - 10.25	Silvia Pascoli	<i>LBL projects and neutrino CP violation in Europe</i>
coffee break (20')		
10.45 - 11.20	Lucia Votano	<i>Neutrino flavor appearance at Gran Sasso: results and perspectives</i>
11.20 - 11.55	Luca Stanco	<i>Short-baseline oscillations of high-energy neutrinos</i>
11.55 - 12.30	Carlo Rubbia	<i>Experimental search for the "LSND anomaly" with ICARUS in the CNGS beam</i>

Afternoon:

Session III (parallel) Oscillations at high energies

Conveners: [Srubabati Goswami](#) and [Marcello Messina](#)

Time	Speaker	Title
16.00-16.20	Roger Wendell	<i>Latest SK atmospheric nu oscillation analysis</i>
16.20-16.40	Jeffrey de Jong	<i>MINOS recent results</i>
16.40-17.00	Alexander Korzenev	<i>Hadroproduction in NA61/SHINE on T2K target</i>
17.00-17.20	Evgeny Akhmedov	<i>Sterile nu's and oscillation coherence for neutrinos produced in decays</i>

Session I (parallel) Absolute neutrino mass scale

Conveners: [Silvia Capelli](#) and [Pasquale Di Bari](#)

Time	Speaker	Title
16.00-16.20	Stefano Morisi	<i>Absolute neutrino mass scale from flavor symmetries</i>
16.20-16.40	Diego Aristizabal	<i>Scalar Triplet Leptogenesis</i>
16.40-17.00	Takehiko Asaka	<i>Probing baryon asymmetry by light RH nu's</i>
17.00-17.20	Daijiro Suematsu	<i>Baryon asymmetry and DM in a radiative nu mass model</i>

coffee break (20')

17.40-18.00	Christina Ignarra	<i>Status of 3+N Global fits</i>	17.40-18.00	Carmelita Carbone	<i>Neutrino mass from cosmological observations</i>
18.00-18.20	Daniele Gibin	<i>ICARUS/Nessie</i>	18.00-18.20	Elena Ferri	<i>Nu mass with 187-Re and 163-Ho in MAR</i>
18.20-18.40	Leslie Camilleri	<i>MicroBoone physics program and R&D for LBNE</i>	18.20-18.40	Ernst Otten	<i>Electrostatic filter potential at KATRIN</i>
18.40-19.00	Kate Scholberg	<i>LBNE</i>	18.40-19.00	Francesco Villante	<i>The Center for Astroparticle Physics (CFA) at LNGS</i>

Thursday 13

Full day excursion

Pizzettata (22.30)

Friday 14 Morning:

Session IV (plenary): Messengers of the universe

Chair: Maria Teresa Muciaccia

Time	Speaker	Title
8.40 - 9.15	Francis Halzen	<i>IceCube</i>
9.15 - 9.50	Manfred Lindner	<i>Sterile neutrinos and dark matter</i>
coffee break (20')		
10.10 - 10.45	David Seckel	<i>New technologies for neutrino detection</i>
10.45 - 11.20	Michael Kachelriess	<i>Charged cosmic rays and neutrinos</i>
11.20 - 11.55	Shin'ichiro Ando	<i>Multimessenger astronomy and neutrinos</i>

Afternoon:

Session IV (parallel) Messengers of the universe

Conveners: [Elisa Bernardini](#) and [Pasquale Serpico](#)

Session II (parallel) Oscillations at low energies

Conveners: [Kate Scholberg](#) and [Francesco Villante](#)

Time	Speaker	Title	Time	Speaker	Title
16.00-16.20	Gianpiero Mangano	<i>Theta13 and nu asymmetries in primordial nu's</i>	16.00-16.20	Aldo Serenelli	<i>Solar Model</i>
16.20-16.40	Irene Tamborra	<i>Sterile nu's in early universe</i>	16.20-16.40	Davide Franco	<i>Results from Borexino</i>
16.40-17.00	Ninetta Saviano	<i>Active sterile neutrino oscillations in the Early Universe with dynamical lepton asymmetries</i>	16.40-17.00	Nuno Barros	<i>Final results from SNO</i>
17.00-17.20	Zurab Berezhiani	<i>Sterile neutrinos and leptogenesis of matter + DM</i>	17.00-17.20	Hiroyuki Sekiya	<i>Super-K low-energy results</i>
coffee break (20')					
17.40-18.00	Anne Schukraft	<i>A view on prompt atm. nus in IceCube</i>	17.40-18.00	Liang Zhan	<i>Daya Bay II and future reactor experiments</i>
18.00-18.20	Jurgen Brunner	<i>Atmospheric nu oscillations in Antares</i>	18.00-18.20	Matt Touns	<i>Daedalus/IsoDAR</i>
18.20-18.40	Andreas Gross	<i>Atmospheric nu oscillations in Icecube</i>	18.20-18.40	Antonio Palazzo	<i>Low-energy sterile nu (theory)</i>
18.40-19.00	Srubabati Goswami	<i>Physics capabilities of future atmospheric nu detectors</i>	18.40-19.00	John Link	<i>Low-energy sterile nu (expt)</i>

Social Dinner

Saturday 15 Morning:

Session V (plenary): Messengers of new physics

Chair: Maurizio Lusignoli

Time	Speaker	Title
8.40 - 9.15	Zhi-zhong Xing	<i>Leptonic flavor structures</i>
9.15 - 9.50	Masato Shiozawa	<i>The Hyper-Kamiokande project</i>
coffee break (20')		
10.10 - 10.45	Andre Rubbia	<i>Large volume detectors with LAr (and scintillators)</i>
10.45 - 11.20	Carlo Giunti	<i>Status of sterile neutrinos</i>
11.20 - 11.55	Tommy Ohlsson	<i>Nonstandard neutrino interactions</i>

Afternoon:

Session V (parallel) Messengers of new physics

Conveners: [Alessandra Tonazzo](#) and [Patrick Huber](#)

Time	Speaker	Title
16.00-16.20	Jonathan Gaffiot	<i>Reactor experiments to test sterile nu's</i>
16.20-16.40	Luca Galli	<i>LVF: Mu-E-Gamma experiment</i>
16.40-17.00	Enrico Nardi	<i>LFV: minimal FV extension of the see-saw</i>
17.00-17.20	Julian Heeck	<i>Gauged flavor symmetries</i>

Session III (parallel) Oscillations at high energies

Conveners: [Srubabati Goswami](#) and [Marcello Messina](#)

Time	Speaker	Title
16.00-16.20	Natalia Di Marco	<i>Recent results of OPERA</i>
16.20-16.40	Maddalena Antonello	<i>ICARUS and the nu velocity measurement</i>
16.40-17.00	Suprabh Prakash	<i>Getting the best out of T2K and NOvA</i>
17.00-17.20	Sanjib Agarwalla	<i>Hierarchy determination in future LBL expts</i>

coffee break (20')

17.40-18.00	Enrico Borriello	<i>Earth matter effects on SN nu's in large-volume detectors</i>
18.00-18.20	Joern Kersten	<i>Coherence of SN neutrinos</i>

Concluding Talk

Chair: Gianluigi Fogli

Time	Speaker	Title
18.30 - 19.15	Atsuto Suzuki	<i>Neutrino Physics: Perspectives</i>
	Gianluigi Fogli	<i>NOW 2012 Acknowledgments</i>

Sunday 16:

Departures