

# **TAUP 2013**

**Sunday 08 September 2013 - Friday 13 September 2013**

**Asilomar, California**  
**Programme**

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## Monday 09 September 2013

### **Cosmology I (14:00-15:40)**

- **Conveners: Abazajian, Kev (UC Irvine); Pastor, Sergio (Univ. of Valencia)**

time	[id] title	presenter
14:00	[96] Planck results and neutrino physics: constraints and tensions (00h20')	Dr. LATTANZI, Massimiliano (Dipartimento di Fisica e Scienze della Terra - Università di Ferrara)
14:20	[119] Cosmological bounds on active-sterile neutrino mixing after Planck data (00h20')	Dr. SAVIANO, Ninetta (DESY)
14:40	[203] Measuring Neutrino Masses with Stage-IV CMB experiment (00h20')	Prof. KUO, Chao-Lin (Stanford University/SLAC)
15:00	[115] Cosmic Microwave Background Polarization and Fundamental Physics (00h20')	Prof. KEATING, Brian (UC San Diego)
15:20	[97] Light WIMPs And Equivalent Neutrinos (00h20')	Prof. STEIGMAN, Gary (The Ohio State University)

### **Dark Matter I (14:00-15:40)**

- **Conveners: Sarsa, Maria Luisa (Univ. Zaragoza); Calaprice, Frank (Princeton Univ.); Gelmini, Graciela (UCLA); Scopel, Stefano (Sogang Univ)**

time	[id] title	presenter
14:00	[86] Searching for Dark Matter with XENON100 and XENON1T (00h20')	Dr. BROWN, Ethan (Muenster University)
14:20	[247] Results of a Dark Matter Search with the Silicon Detectors of the CDMS II Experiment (00h20')	Dr. BILLARD, Julien (MIT)
14:40	[175] Search for an annual modulation in 3.4 years of CoGeNT data (00h20')	COLLAR, Juan (University of Chicago)
15:00	[64] A Dark Matter Search with The MAJORANA Low-Background Broad Energy Germanium Detector (00h20')	GIOVANETTI, Graham K. (Unversity of North Carolina)
15:20	[98] Recent progress in KIMS experiment (00h20')	Prof. KIM, Yeongduk (Institute for Basic Science / Sejong University)

### **Double Beta Decay/ Neutrino Mass I (14:00-15:40)**

- **Conveners: Detwiler, Jason (Univ. of Washington); Capelli, Silvia (Univ. Milano-Bicocca); Petcov, Serguey (SISSA)**

time	[id] title	presenter
14:00	[105] The Origin of Neutrino Masses and Neutrinoless Double Beta Decay (00h40')	Dr. RODEJOHANN, Werner (MPIK, Heidelberg)
14:40	[40] Results from the GERDA experiment (00h20')	SCHWINGENHEUER, B. (Max Planck Heidelberg)
15:00	[109] Reaching higher sensitivities for neutrinoless double beta decay with GERDA phase II (00h20')	Dr. MAJOROVITS, Bela (MPI for Physics)
15:20	[201] The Majorana Demonstrator for $0\nu\beta\beta$ : Current Status and Future Plans (00h20')	GREEN, Matthew (University of North Carolina)

### **Low Energy Neutrinos I (14:00-16:00)**

- **Conveners: Kim, Soo-Bong (Seoul National Univ.); McDonald, Art (Queens Univ.); Pena-Garay, Carlos (Univ. of Valencia); Pixa, Michele**

time	[id] title	presenter
14:00	[170] Past and present experiments of geoneutrinos (00h20')	Dr. SHIMIZU, Itaru (Tohoku University)
14:20	[244] Future Geo-Neutrino Experiments (00h20')	Prof. CHEN, Mark (Queen's University)
14:40	[253] Geo-neutrinos and Earth Models (00h20')	Dr. DYE, Stephen (Hawaii Pacific University)
15:00	[176] CosI, a new approach to coherent neutrino detection at the SNS (00h20')	COLLAR, Juan (University of Chicago)
15:20	[41] Low-energy neutrino astronomy in LENA (00h20')	WURM, Michael (University of Tubingen)

### **Dark Matter II (16:00-18:00)**

- **Conveners: Sarsa, Maria Luisa (Univ. Zaragoza); Calaprice, Frank (Princeton Univ.); Gelmini, Graciela (UCLA); Scopel, Stefano (Sogang Univ)**

time	[id] title	presenter
16:00	[100] Searching for Dark Matter with PICASSO (00h20')	Dr. JACKSON, Christopher (Université de Montréal)
16:20	[112] Observation of the Dependence of Scintillation from Nuclear Recoils in Liquid Argon on Drift Field (00h20')	Mr. CAO, Huajie (Princeton University)
16:40	[249] PICOLite: A bubble chamber to search for light WIMPs (00h20')	Dr. NEILSON, Russell (University of Chicago)
17:00	[45] Dark Matter search with CUORE-0 and CUORE (00h20')	GORLA, Paolo (Gran Sasso)
17:20	[220] First results from subkeV energy threshold spherical gaseous detector for light Dark Matter identification (00h20')	Dr. GERBIER, Gilles (CEA Saclay IRFU)
17:40	[46] A maximum-likelihood-method search for low-mass WIMPs using the CDMS II experiment (00h20')	NELSON, Robert (Cal Tech)

### **Double Beta Decay/ Neutrino Mass II (16:00-18:00)**

- **Conveners: Detwiler, Jason (Univ. of Washington); Capelli, Silvia (Univ. Milano-Bicocca); Petcov, Serguey (SISSA)**

time	[id] title	presenter
16:00	[151] Status and perspectives of the COBRA experiment (00h20')	Dr. WONSAK, Bjoern (University of Hamburg)
16:20	[29] Status and Perspectives of the KATRIN Experiment (00h20')	MERTENS, Susanne
16:40	[157] The status of the MARE experiment with 187Re and 163Ho isotopes (00h20')	Dr. FERRI, Elena (Università Milano-Bicocca & INFN Milano-Bicocca)
17:00	[83] The Electron Capture 163Ho experiment ECHO (00h20')	Dr. GASTALDO, Loredana (KIP, Heidelberg University)
17:20	[225] The Project 8 radiofrequency tritium neutrino experiment (00h20')	Prof. MONREAL, Benjamin (Uc Santa Barbara)

### **High Energy Astrophysics I (16:00-17:40)**

- **Conveners: Gaisser, Tom (Bartol, Univ. Delaware); Latronico, Luca (INFN, Univ. Torino)**

time	[id] title	presenter
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16:00	[84] TA and TALE - Results and Plans (00h20')	Prof. SOKOLSKY, Pierre (University of Utah)
16:20	[71] Large-scale cosmic-ray anisotropy studies at the Pierre Auger Observatory at EeV energies (00h20')	GHIA, Piera Luisa (University Pierre et Marie Curie)
16:40	[211] Recent Highlights from ARGO-YBJ (00h20')	Dr. DI SCIASCIO, Giuseppe (INFN - Sezione Roma Tor Vergata)
17:00	[197] Development of Source Catalogs for the Fermi Large Area Telescope (00h20')	DIGEL, Seth (KIPAC/SLAC National Accelerator Laboratory)
17:20	[58] Results from the ANTARES neutrino telescope after 5 years of data (00h20')	SPURIO, Maurizio (INFN Bologna)

### **Neutrino Oscillations/ Neutrino Beams I: Appearance and disappearance oscillation results**

**(16:00-17:40)**

- **Conveners: Conrad, Janet (MIT); Lisi, Eligio (Univ. of Bari); Wojcicki, Stan (Stanford Univ.)**

time	[id] title	presenter
16:00	[70] Recent results from the OPERA experiment (00h20')	DUCHESNEAU, Dominique (LAPP)
16:20	[235] The latest results from T2K on the neutrino oscillation (00h20')	Dr. KAMEDA, Jun (ICRR, University of Tokyo)
16:40	[178] MINOS/MINOS+ (00h20')	VAHLE, Patricia (William and Mary)
17:00	[189] Reactor Rate Modulation Analysis in Double Chooz (00h20')	NOVELLA, Pau (CNRS)
17:20	[233] The ICARUS Experiment; latest results (00h20')	Dr. ANTONELLO, Maddalena (INFN - LNGS)

## Tuesday 10 September 2013

### Atmospheric Neutrinos I (14:00-15:40)

- **Conveners:** Resconi, Elisa (TU-Munich); Itow, Yoshitaka (Nagoya Univ.)

time	[id] title	presenter
14:00	[51] Atmospheric neutrino calculations (00h20')	GAISSER, Tom (Bartol, Univ. Delaware)
14:20	[139] Neutrino oscillations in moving and accelerating matter (00h20')	Prof. STUDENIKIN, Alexander (Department of Theoretical Physics, Moscow State University)
14:40	[163] Measuring the flavor ratio of atmospheric neutrinos with IceCube (00h20')	Mr. VAN SANTEN, Jakob (UW-Madison)
15:00	[156] Search for a diffuse flux of cosmic neutrinos with ANTARES (00h20')	Ms. SCHNABEL, Jutta (ECAP Universität Erlangen-Nürnberg)
15:20	[166] Search for Diffuse Astrophysical Muon Neutrinos with Two Years of IceCube Data (00h20')	Mr. WEAVER, Christopher (University of Wisconsin, Madison)

### Cosmology II (14:00-16:00)

- **Conveners:** Pastor, Sergio (Univ. of Valencia); Abazajian, Kev (UC Irvine)

time	[id] title	presenter
14:00	[199] Planck Results on Inflation (00h20')	Dr. FINELLI, Fabio (INAF IASF Bologna)
14:20	[200] The Dark Energy Survey: First Results (00h20')	JELTEMA, Tesla (University of California, Santa Cruz)
14:40	[226] Neutrino and Dark Energy Constraints for BOSS/eBOSS/DESI (00h20')	Dr. PALANQUE-DELABROUILLE, Nathalie (CEA)
15:00	[81] Angular and redshift issues for large galaxy surveys (00h20')	Dr. CUNHA, Carlos (Stanford University)
15:20	[69] Cosmological Simulations with Self-Interacting Dark Matter (00h20')	ROCHA, Miguel (UC Irvine)
15:40	[60] Light milli-charged dark matter and the origin of large scale cosmic fields. (00h20')	DOLGOV, A.D. (INFN, Ferrara)

### Dark Matter III (14:00-15:40)

- **Conveners:** Sarsa, Maria Luisa (Univ. Zaragoza); Calaprice, Frank (Princeton Univ.); Gelmini, Graciela (UCLA); Scopel, Stefano (Sogang Univ)

time	[id] title	presenter
14:00	[181] The LUX Experiment (00h20')	Dr. GIBSON, Karen (Case Western Reserve University)
14:20	[74] Status of XMASS experiment (00h20')	MORIYAMA, Shigetaki (ICRR, University of Tokyo)
14:40	[187] The EDELWEISS Dark Matter search (00h20')	EITEL, Klaus (Karlsruhe Institute of Technology (KIT))
15:00	[152] DarkSide-50: a two-phase argon TPC for a direct WIMP search (00h20')	MEYERS, Peter (Princeton University)

15:20	[144] DEAP-3600 Dark Matter Search with Argon (00h20')	Dr. BOULAY, Mark (Queen's University)
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### **Low Energy Neutrinos II (14:00-15:40)**

- **Conveners: Pena-Garay, Carlos (Univ. of Valencia); McDonald, Art (Queens Univ.); Kim, Soo-Bong (Seoul National Univ.)**

time	[id] title	presenter
14:00	[242] Solar Neutrino Results and Future Opportunities with Borexino (00h20')	CALAPRICE, Frank (Princeton Univ.)
14:20	[72] Recent Solar Neutrino Results From Super-Kamiokande (00h20')	RENSHAW, Andrew (UC Irvine)
14:40	[210] SNO+ experiment (00h20')	Mr. KASPAR, Jarek (University of Washington)
15:00	[26] Solar models and solar neutrinos: a quantitative analysis of the solar composition problem (00h20')	VILLANTE, F.L. (Gran Sasso)
15:20	[117] Neutrino mass hierarchy and neutrino oscillation parameters with 100,000 reactor events (00h20')	Dr. MARRONE, Antonio (Univ. of Bari & INFN, Bari)

### **Dark Matter IV (16:00-18:00)**

- **Conveners: Sarsa, Maria Luisa (Univ. Zaragoza); Calaprice, Frank (Princeton Univ.); Gelmini, Graciela (UCLA); Scopel, Stefano (Sogang Univ)**

time	[id] title	presenter
16:00	[221] The unbearable lightness of being: CDMS versus XENON (00h20')	Mr. KAHLHOEFER, Felix (University of Oxford)
16:20	[204] Halo Independent Comparison of Direct Dark Matter Detection Data (00h20')	Dr. DEL NOBILE, Eugenio (UCLA)
16:40	[85] Dark Matter Detection Prospects for the Cherenkov Telescope Array (00h20')	Dr. NIETO, Daniel (Columbia University)
17:00	[188] Dirac sneutrino as a light dark matter (00h20')	SETO, Osamu (Hokkai-Gakuen University)
17:20	[87] Model-Independent Analyses of Dark Matter Particle Interactions (00h20')	Prof. HAXTON, Wick (UC Berkeley)
17:40	[129] Searching for Sub-Gev Dark Matter at Fixed Target Neutrino Experiments (00h20')	Mr. DENIVERVILLE, Patrick (University of Victoria)

### **Double Beta Decay/ Neutrino Mass III (16:00-17:50)**

- **Conveners: Detwiler, Jason (Univ. of Washington); Capelli, Silvia (Univ. Milano-Bicocca); Petcov, Serguey (SISSA)**

time	[id] title	presenter
16:00	[138] Recent Results from the KamLAND-Zen Experiment (00h20')	DECOWSKI, M. Patrick (University of Amsterdam / Nikhef)
16:20	[126] Recent results from EXO-200 (00h20')	DANIELS, Tim (UMass Amherst)
16:40	[102] nEXO: a multi-ton detector for neutrino less double-beta decay (00h20')	TWELKER, Karl Twelker (Stanford University)
17:00	[63] Status of NEXT-100 (00h20')	HERNANDO, Jose A. (CERN)
17:20	[77] Non-Standard Mechanisms for Double Beta Decay (00h30')	Dr. DEPPISCH, Frank (University College London)



**High Energy Astrophysics II (16:00-17:40)**- Conveners: **Latronico, Luca (INFN, Univ. Torino); Gaisser, Tom (Bartol, Univ. Delaware)**

time	[id] title	presenter
16:00	[143] First Evidence of High-Energy Extraterrestrial Neutrinos at IceCube (00h20')	Dr. KOPPER, Claudio (University of Wisconsin--Madison)
16:20	[150] Measurement of the diffuse neutrino flux by a global fit to multiple IceCube results (00h20')	Mr. MOHRMANN, Lars (DESY)
16:40	[133] Revealing Deaths of Massive Stars with High-Energy Neutrinos (00h20')	Dr. MURASE, Kohta (Institute for Advanced Study)
17:00	[52] Studying the chemical composition of the highest energy cosmic rays with the Pierre Auger Observatory (00h20')	BELLIDO, J. (University of Adelaide)
17:20	[106] Constraints and measurements of hadronic interactions in extensive air showers with the Pierre Auger Observatory (00h20')	CAZON, Lorenzo (The Pierre Auger Collaboration)

**Neutrino Oscillations/ Neutrino Beams II: Towards CP violation, hierarchy, and matter effects (16:00-17:40)**- Conveners: **Conrad, Janet (MIT); Lisi, Eligio (Univ. of Bari); Wojcicki, Stan (Stanford Univ.)**

time	[id] title	presenter
16:00	[34] DAE $\delta$ ALUS/IsoDAR: A Phased Neutrino Physics Program Using Cyclotron Decay-at-Rest Neutrino Sources (00h20')	TOUPS, Matt (MIT)
16:20	[39] The European Spallation Source Neutrino Super Beam (00h20')	DRACOS, Marcos (University of Strasbourg)
16:40	[208] The NOvA Experiment (00h20')	VAHLE, Patricia (William and Mary)
17:00	[153] Neutrino flavor sensitivity of large scintillator detectors (00h20')	Mr. LOO, Kai (University of Jyvaskyla)
17:20	[30] Analytic approach to three-neutrino oscillations in the Earth (00h20')	ACERO, Mario A. (Univ. Atlantico)

## Wednesday 11 September 2013

### **Dark Matter V (14:00-15:40)**

- **Conveners:** Sarsa, Maria Luisa (Univ. Zaragoza); Calaprice, Frank (Princeton Univ.); Gelmini, Graciela (UCLA); Scopel, Stefano (Sogang Univ); Pixa, Michele

time	[id] title	presenter
14:00	[193] LZ: A 2nd Generation Dark Matter Direct-search Experiment (00h20')	Prof. TRIPATHI, Mani (UC Davis)
14:20	[62] A CDMS low ionization threshold experiment and SuperCDMS SNOLAB (00h20')	HALL, Jeter (Pacific Northwest National Lab)
14:40	[118] Progress and results from COUPP60 (00h20')	Dr. LIPPINCOTT, Hugh (Fermilab)
15:00	[89] Update on the MiniCLEAN Dark Matter Experiment (00h20')	Dr. RIELAGE, Keith (Los Alamos National Laboratory)
15:20	[148] Characterization of Nuclear Recoils in High-Pressure Xenon Gas: Towards a Simultaneous Search for WIMP Dark Matter and Neutrinoless Double Beta Decay (00h20')	RENNER, Joshua

### **Gravitational Waves I: Detectors (14:00-15:40)**

- **Conveners:** Katsavounidis, Erik (MIT); Marx, Jay (LIGO)

time	[id] title	presenter
14:00	[238] Gravitational Wave Detection with Pulsar Timing Arrays: Prospects and Status (00h20')	BURKE SPOLAOR, Sarah (NASA-JPL)
14:20	[236] From installation to integration: phase transitions in Advanced LIGO (00h20')	LANDRY, Michael (LIGO Hanford Observatory)
14:40	[215] Seismic shock damper: New in-air seismic attenuation system for the Advanced Virgo gravitational wave detector (00h20')	Mr. BLOM, Matheus (Nikhef Amsterdam, Virgo)
15:00	[237] Status of Space-based Gravitational-wave Observatories (00h20')	LIVAS, Jeff (NASA-GSFC)
15:20	[240] Stochastic Gravitational Waves in the Advanced Detector Era (00h20')	Dr. THRANE, Eric (Caltech)

### **Low Energy Neutrinos III (14:00-15:40)**

- **Conveners:** Kim, Soo-Bong (Seoul National Univ.); McDonald, Art (Queens Univ.); Pena-Garay, Carlos (Univ. of Valencia)

time	[id] title	presenter
14:00	[146] Status of the Precision IceCube Next Generation Upgrade (PINGU) (00h20')	Prof. GRANT, Darren (University of Alberta)
14:20	[48] Search for Supernova Relic Neutrinos with 2.2MeV gamma Tagging at Super-Kamiokande-IV (00h20')	ZHANG, Yang (--)
14:40	[27] Neutrino(Antineutrino) Cross Sections in some Nuclear Targets at Supernova Neutrino Energies (00h20')	CHAUHAN, S. (---)
15:00	[25] Fast time variations of supernova neutrino fluxes and detection perspectives (00h20')	TAMBORRA, Irene (Max Plank Institut fur Physik, Munich)
15:20	[136] GADZOOKS! (00h20')	Dr. KOSHIO, Yusuke (Okayama university)

### **Nuclear and Particle Astrophysics (14:00-15:40)**

- **Conveners: Sinclair, David (Carleton Univ.); Bertou, Xavier (Centro Atomico Bariloche & Inst. Balseiro)**

time	[id] title	presenter
14:00	[218] DIANA - An Underground Accelerator Facility for Nuclear Astrophysics Status Report (00h20')	Dr. ROBERTSON, Daniel (University Of Notre Dame)
14:20	[20] Latest Updates on the International AXion Observatory (IAXO) (00h20')	VOGEL, Julia K. (CERN)
14:40	[245] B-Factory Constraints on Low-Mass Dark Matter (00h20')	Prof. KOLOMENSKY, Yury (UC Berkeley/LBNL)
15:00	[167] Coherent Inverse Primakoff-Bragg Conversion of Solar Axions in Single Crystal Bolometers (00h20')	Prof. CRESWICK, Richard (University of South Carolina)
15:20	[125] Production of $^{51}\text{Cr}$ neutrino and $^{144}\text{Ce}$ antineutrino sources for SOX and CeLAND experiments (00h00')	Dr. KORNOUKHOV, Vasily (ITEP)

### **Dark Matter VI (16:00-18:00)**

- **Conveners: Sarsa, Maria Luisa (Univ. Zaragoza); Calaprice, Frank (Princeton Univ.); Gelmini, Graciela (UCLA); Scopel, Stefano (Sogang Univ); Pixa, Michele**

time	[id] title	presenter
16:00	[88] Virtual Internal Bremsstrahlung of Dark Matter and Connection with AMS-02 Result (00h20')	Dr. TOMA, Takashi (Durham University)
16:20	[55] Antiproton Limits on Decaying Gravitino Dark Matter (00h20')	GREFE, Michael (Universidad Autonoma de Madrid)
16:40	[22] Halo-independent tests relevant for inelastic dark matter scattering (00h20')	BOZORGNIA, Nassim (Max Planck Heidelberg)
17:00	[78] The DRIFT Directional Dark Matter Detector (00h20')	MILLER, Eric (University of New Mexico)
17:20	[195] DAMIC at SNOLAB: toward DAMIC100 (00h20')	Dr. CHAVARRIA, Alvaro (University of Chicago)
17:40	[250] Updates from the DMTPC directional dark matter experiment (00h20')	DEACONU, Cosmin (MIT)

### **Double Beta Decay/ Neutrino Mass IV (16:00-17:50)**

- **Conveners: Petcov, Serguey (SISSA); Capelli, Silvia (Univ. Milano-Bicocca); Detwiler, Jason (Univ. of Washington)**

time	[id] title	presenter
16:00	[36] First data from CUORE-0 (00h20')	VIGNANI, Marco (INFN Rome)
16:20	[37] CUORE and beyond: bolometry techniques to explore inverted neutrino mass hierarchy (00h20')	HAN, Ke
16:40	[142] The SNO+ Experiment (00h20')	Prof. BILLER, Steven (Oxford University)
17:00	[135] The AMoRE project to search for neutrinoless double decay of $^{100}\text{Mo}$ using cryogenic $\text{CaMoO}_4$ detectors (00h20')	Prof. KIM, Yong-Hamb (Korea Research Institute of Standards and Science)
17:20	[47] Uncovering Multiple Mechanisms of $bb0\nu$ Decay (00h30')	AURORA, Meroni (Trieste)

### **High Energy Astrophysics III (16:00-17:40)**

- **Conveners: Gaisser, Tom (Bartol, Univ. Delaware); Latronico, Luca (INFN, Univ. Torino)**

time	[id] title	presenter
16:00	[59] High-Energy Cosmogenic Neutrinos (00h20')	AHLERS, Markus (Univ. of Wisconsin)

16:20	[68] Measurement of cosmic ray energy spectrum and composition with IceCube (00h20')	RUZYBAYEV, Bakhtiyar (University of Delaware)
16:40	[186] Cosmic Rays from the Knee to the Ankle (00h20')	HAUNGS, Andreas (KIT - Karlsruhe Institute of Technology)
17:00	[252] 5 minute poster previews (00h40')	

### **Neutrino Oscillations/ Neutrino Beams III: Sterile neutrinos and nonstandard properties**

**(16:00-17:40)**

- **Conveners: Conrad, Janet (MIT); Lisi, Eligio (Univ. of Bari); Wojcicki, Stan (Stanford Univ.)**

time	[id] title	presenter
16:00	[49] Sterile neutrino oscillations: the global picture (00h20')	KOPP, Joachim (Max Planck, Heidelberg)
16:20	[91] CeLAND: PBq source in KamLAND and short baseline neutrino oscillations prospects (00h20')	Dr. MARICIC, Jelena (University of Hawaii)
16:40	[141] SOX: Short distance neutrino Oscillations with BoreXino (00h20')	Dr. SMIRNOV, Oleg (Joint Institute for Nuclear Research)
17:00	[108] Latest results and current status of the MEG and Mu2e charged lepton flavor violation experiments (00h20')	Dr. LIM, Gordon (University of California, Irvine)
17:20	[18] Electromagnetic interactions of neutrinos (00h20')	STUDENIKIN, Alexander (Moscow State University)

### **Poster Session (19:30-22:00)**

- **Conveners: Haxton, Wick; Pixa, Michele**

## Thursday 12 September 2013

### Atmospheric Neutrinos II (14:00-15:40)

- **Conveners:** Resconi, Elisa (TU-Munich); Itow, Yoshitaka (Nagoya Univ.); Pixa, Michele

time	[id] title	presenter
14:00	[66] Atmospheric neutrino oscillation and mass hierarchy determination in Super-Kamiokande (00h00')	OKUMURA, Kimihiro (ICRR, University of Tokyo)
14:20	[217] Measurement of atmospheric neutrino oscillations with IceCube (00h00')	EULER, Sebastian (RWTH Aachen University)
14:40	[42] New Limits on Sterile Neutrino Mixing with Atmospheric Neutrinos (00h00')	HIMMEL, Alexander (Duke)
15:00	[104] Status of the KM3NeT project (00h00')	Dr. CONIGLIONE, Rosa (INFN - Laboratori Nazionali del sud)

### Dark Matter VII (14:00-15:40)

- **Conveners:** Sarsa, Maria Luisa (Univ. Zaragoza); Calaprice, Frank (Princeton Univ.); Gelmini, Graciela (UCLA); Scopel, Stefano (Sogang Univ)

time	[id] title	presenter
14:00	[246] Dark matter searches at the LHC (00h20')	APRESYAN, Artur (Caltech)
14:20	[123] Indirect Searches for Dark Matter with the Fermi Large Area Telescope (00h20')	ALBERT, Andrea (SLAC)
14:40	[213] Latest Results on Searches for Dark Matter from IceCube (00h20')	Dr. DANNINGER, Matthias (Stockholm University)
15:00	[44] Search for the light WIMP captured in the Sun using contained events in Super-Kamiokande (00h20')	CHOI, Koun (Nagoya University)
15:20	[173] The Search for Dark Matter with The High Altitude Water Cherenkov (HAWC) Observatory (00h20')	Dr. HARDING, J. Patrick (Los Alamos National Laboratory)

### Gravitational Waves II: Multi-messenger Analysis (14:00-15:40)

- **Conveners:** Katsavounidis, Erik (MIT); Marx, Jay (LIGO)

time	[id] title	presenter
14:00	[174] The explosion dynamics of core-collapse supernovae and its multi-messenger signatures (00h20')	KOTAKE, Kei (Fukuoka University)
14:20	[207] Observing Gravitational Waves from the Next Nearby Core-Collapse Supernova (00h20')	Ms. GOSSAN, Sarah (California Institute of Technology)
14:40	[147] Delayed Outflows from Accretion Disks formed in Neutron Star Binary Mergers (00h20')	FERNANDEZ, Rodrigo (UC Berkeley)
15:00	[239] Detection and Localization of Gravitational Wave Transients: The Early Years (00h20')	Dr. PRICE, Larry (Caltech)
15:20	[76] General-relativistic Simulations of Three-dimensional Core-collapse Supernovae (00h20')	Dr. ABDIKAMALOV, Ernazar (Caltech)

### Low Energy Neutrinos IV (14:00-15:40)

- **Conveners:** Kim, Soo-Bong (Seoul National Univ.); McDonald, Art (Queens Univ.); Pena-Garay, Carlos (Univ. of Valencia)

time	[id] title	presenter
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14:00	[75] Daya Bay Reactor Antineutrino Experiment (00h20')	Mr. LU, Haoqi (Institute of High Energy Physics)
14:20	[57] Double Chooz latest results (00h20')	MARIANI, Camillo (Virginia Tech)
14:40	[121] Recent Results from RENO (00h20')	SEO, Seon-Hee (Seoul National University)
15:00	[241] Reexamination of the Reactor Antineutrino Anomaly (00h20')	HAYES, Anna (Los Alamos National Laboratory)
15:20	[219] Future reactor neutrino experiments (00h20')	JAFFE, David (BNL)

### **Underground Laboratories/ Large Detectors I (14:00-15:40)**

- **Conveners: Bertou, Xavier (Centro Atomico Bariloche & Inst. Balseiro); Sinclair, David (Carleton Univ.); Bonifacio, Lady (LBNL); Pixa, Michele**

time	[id] title	presenter
14:20	[158] Activites at Modane Underground Laboratory (00h20')	Dr. PIQUEMAL, Fabrice (CNRS)
14:40	[216] The SNOLAB Science Programme (00h20')	SINCLAIR, David (Carleton University)
15:00	[127] ANDES: an underground laboratory in South America (00h20')	Dr. DIB, Claudio (U. Federico Santa Maria, Valparaiso, Chile)
15:20	[162] Towards a South African Underground Laboratory (00h20')	Prof. WYNGAARDT, Shaun (Stellenbosch University)
15:40	[230] The Second-Phase Development of the China JinPing Underground Laboratory for Physics Rare-Event Detectors and Multi-Disciplinary Sensors (00h00')	WANG, Joseph S.Y. (Lawrence Berkeley National Laboratory)

### **Dark Matter VIII (16:00-18:00)**

- **Conveners: Sarsa, Maria Luisa (Univ. Zaragoza); Calaprice, Frank (Princeton Univ.); Gelmini, Graciela (UCLA); Scopel, Stefano (Sogang Univ); Pixa, Michele**

time	[id] title	presenter
16:00	[73] PRELIMINARY RESULTS OF ANAIS-25 AT THE CANFRANC UNDERGROUND LABORATORY (00h20')	SARSA, Maria Luisa (Univ. Zaragoza)
16:20	[94] SABRE: A new NaI(Tl) dark matter direct detection experiment (00h20')	Mrs. SHIELDS, Emily (Graduate Student)
16:40	[120] KamLAND-PICO Dark Matter Search Project (00h20')	Prof. FUSHIMI, Ken-Ichi (The Univ. of Tokushima)
17:00	[54] Limits on spin-independent couplings of WIMP dark matter with a p-type point-contact germanium detector (00h20')	LIN, Shin-Ted (Academia Sinica Taiwan)
17:20	[21] Recent constraints on axion-photon and axion-electron couplings with the CAST experiment (00h20')	RUZ, Jaime (CERN)
17:40	[134] The recent status and prospect of CDEX experiment and China Jinping underground laboratory (00h20')	Dr. YUE, Qian (Tsinghua University)

### **Double Beta Decay/ Neutrino Mass V (16:00-17:50)**

- **Conveners: Detwiler, Jason (Univ. of Washington); Capelli, Silvia (Univ. Milano-Bicocca); Petcov, Serguey (SISSA)**

time	[id] title	presenter
16:00	[79] Search for Neutrino-less Double Beta Decay with CANDLES (00h20')	Dr. UMEHARA, Saori (Osaka University)

16:20	[53] Latest Results of the NEMO-3 Experiment and Status of SuperNEMO (00h20')	BONGRAND, Mathieu (Orsay, LAL)
16:40	[172] Investigation of double beta decay of $^{100}\text{Mo}$ to excited final states of $^{100}\text{Ru}$ (00h20')	Prof. BARABASH, Alexander (ITEP)
17:00	[114] Status of the DCBA/MTD experiment (00h20')	Dr. KAKUNO, Hidekazu (Tokyo Metropolitan University)
17:20	[101] The Nuclear Matrix Elements for $0\nu\beta\beta$ -Decay: Current Status (00h30')	Prof. SIMKOVIC, Fedor (Comenius U. and JINR Dubna)

### **High Energy Astrophysics IV (16:00-17:40)**

- **Conveners: Latronico, Luca (INFN, Univ. Torino); Gaisser, Tom (Bartol, Univ. Delaware)**

time	[id] title	presenter
16:00	[234] High-energy observations of Supernova remnants (00h20')	Prof. FUNK, Stefan (Kavli Institute for Particle Astrophysics and Cosmology)
16:20	[95] First Results from the High-Altitude Water Cherenkov Observatory (00h20')	BENZVI, Segev (University of Wisconsin-Madison)
16:40	[93] LOFAR: air shower $X_{\text{max}}$ measurements with radio antennas (00h20')	Dr. BUITINK, Stijn (KVI, University of Groningen, Netherlands)
17:00	[169] The mass composition of ultra-high energy cosmic rays measured by new fluorescence detectors in Telescope Array experiment (00h20')	Dr. FUJII, Toshihiro (University of Chicago)
17:20	[80] Measurement of the Muon Content of Air Showers with IceTop (00h20')	Dr. GONZALEZ, Javier (University of Delaware)

### **Neutrino Oscillations/ Neutrino Beams IV: Neutrino interactions and detection (16:00-17:40)**

- **Conveners: Wojcicki, Stan (Stanford Univ.); Conrad, Janet (MIT); Lisi, Eligio (Univ. of Bari)**

time	[id] title	presenter
16:00	[160] Neutrino Induced Dimuons and Coherent-Rho in NOMAD (00h20')	Dr. CAMILLERI, Leslie (Columbia University)
16:20	[128] The MicroBooNE and ArgoNeuT Experiments (00h20')	ASAADI, Jonathan (Syracuse University)
16:40	[232] Measuring Neutrino Cross Sections with the MicroBooNE Experiment (00h20')	Dr. MICELI, Tia (NMSU)
17:00	[214] The Cryogenic Apparatus for Precision Tests of Argon Interactions with Neutrino (00h20')	LIU, Qiuguang (Los Alamos National Laboratory)
17:20	[65] Neutron detection and distinguishing high energy Anti-neutrinos in Super-Kamiokande (00h20')	IRVINE, Tristan (--)

### **Underground Laboratories/ Large Detectors II (16:00-17:40)**

- **Conveners: Bertou, Xavier (Centro Atomico Bariloche & Inst. Balseiro); Sinclair, David (Carleton Univ.)**

time	[id] title	presenter
16:00	[131] Future of Super-Kamiokande and Hyper-Kamiokande (00h20')	Prof. NAKAHATA, Masayuki (Kamioka observatory, ICRR, Univ. of Tokyo)
16:20	[43] The LAGUNA-LBNO Project (00h20')	BUIZZA AVANZINI, Margherita (--)
16:40	[33] GLACIER for LBNO: Physics motivation and R results (00h20')	MURPHY, Sebastian (CERN)

17:00	[107] Low Background Counting at the LBNL Low Background Facility (00h20')	THOMAS, Keenan
17:20	[248] The Sanford Underground Research Facility (SURF) (00h00')	LESKO, Kevin (LBNL)