

**VIII Latin American Symposium on Nuclear Physics and Applications
December 15-19, 2009, Santiago, Chile
Scientific Program**

VIII LASNPA	MORNING	AFTERNOON
TUESDAY Dec 15	Plenary 1	Plenary 2
WEDNESDAY Dec 16	Plenary 3	Parallels A1, A2, A3, A4
THURSDAY Dec 17	Plenary 4	Parallels B1, B2, B3, B4
FRIDAY Dec 18	Plenary 5	Parallels C1, C2, C3, C4
SATURDAY Dec 19	Plenary 6	Workshop

Plenary 1: Inaugural Session

(Kreiner, Zanelli, Podlech, Talmi, Ramsey-Musolf)

Plenary 2: Nuclear and Particle Astrophysics

(Schatz, Domingo, Bemmerer, Etchegoyen, Galbiati)

Plenary 3: Nuclear Structure and Reactions

(Janssens, Tomio, Chamon, Morrissey, Avila-Rodriguez)

Plenary 4: Hadron Structure and Phases of Nuclear Matter

(Herrera-Corral, Cardman, Senger, Phillips, Beane)

Plenary 5: Physics beyond the Standard Model

(Blaum, Naviliat-Cuncic, Plaster, McKeown, Surrow)

Plenary 6: Applications of Nuclear Physics

(Brandan, Wells, Gho, Lichtenthaler)

Parallel A1: Nuclear Structure and Reactions I

(Casten, Hoffman, Sharma, Ferreira, Gulshani, Sarmiento, Cristancho, Molina)

Parallel A2: Applications of Nuclear Physics I

(Viesti, Aguirre, Cruz, Javier, Cortes, Micheletti, Figueroa, Bennun, Barros)

Parallel A3: Matter and Strong Force (QCD) I

(Djalali, Kopeliovich, Rossi, Krein, Schmidt, Vega, Hakobyan)

Parallel A4: Nuclear Instrumentation and Facilities

(Rubio, Milazzo, Rodriguez, Olivares, Wiesner, Vaz, Granja, Tarifeno, Bennun)

Parallel B1: Nuclear Structure and Reactions II

(Arellano, Shlomo, Grion, Pacheco, Monteiro, Barioni, Merchan, Montoya, Shorto)

Parallel B2: Applications of Nuclear Physics II

(Baptista, Oliveira, Burlon, Valda, Avila, Perez, Kovacs, Valente, Morales)

Parallel B3: Matter and Strong Force (QCD) II

(Mehen, Nielsen, Bijker, Cole, Gilad, Pena, Loewe, Vega)

Parallel B4: Nuclear and Particle Astrophysics

(Becerril, Jenkins, Lee, Fujita, de la Mota, Tagliente, Petrovich, Gonzalez)

Parallel C1: Nuclear Structure and Reactions III

(Lenzi, Rahman, Medina, Rios, Montuenga, Wu, Hadizadeh, Lekala, Gomes, Donghai)

Parallel C2: Applications of Nuclear Physics III

(Sajo, Gomes, Curado, Dale, Lozano, Soto, Soto)

Parallel C3: Matter and Strong Force (QCD) III

(Scoccola, Millan, Rodrigues, Villavicencio, Valenzuela, Brooks)

Parallel C4: Fundamental Symmetries and Neutrinos

(Kohl, Gericke, Mack, Gorshteyn, Naviliat-Cuncic, Hennings-Yeomans, Barea)

TUESDAY MORNING, DECEMBER 15
PLENARY 1: Inaugural Session, Sala Gorbea
Chair: Maria Ester Brandan (UNAM, Mexico)

- 9:15 Hadron Therapy in Latin America
Andres J. Kreiner (CNEA-UNSAM, Argentina)
- 9:50 The NucleoElectric Option in Chile
Jorge Zanelli (Centro de Estudios Cientificos, Chile)
- 10:25 The EUROTRANS Project
Holger Podlech (IAP Frankfurt)
- 11:00 Coffee break
- 11:30 Sixty Years of the Nuclear Shell Model
Igal Talmi (Weizmann Institute of Science)
- 12:05 Nuclear Science and the New Standard Model
Michael Ramsey-Musolf (University of Wisconsin)
- 12:40 End of Session

TUESDAY AFTERNOON, DECEMBER 15
PLENARY 2: Nuclear and Particle Astrophysics, Sala Gorbea
Chair: Paulo Gomes (Universidad Federal Fluminense)

- 14:30 Nuclear Astrophysics with Rare Isotope Beams
Hendrik Schatz (Michigan State University)
- 15:05 Nuclear Astrophysics at FAIR
Cesar Domingo (GSI-Darmstadt)
- 15:40 Nuclear physics underground
Daniel Bemmerer (Forschungszentrum Dresden)
- 16:15 Coffee Break
- 16:45 Pierre Auger Project and Enhancements
Alberto Etcheyogen (CNEA and CONICET, Argentina)
- 17:20 A Walk on the DarkSide
Cristiano Galbiati (Princeton University)
- 17:55 **INAUGURAL CEREMONY and RECEPTION**
Physics and Memories
Jack Rapaport (Ohio University)

WEDNESDAY MORNING, DECEMBER 16

PLENARY 3: Nuclear Structure and Reactions, Anfiteatro G108

Chair: Berta Rubio (CSIC, Valencia, Spain)

- 9:00 In memoriam Marcos Moshinsky (1921-2009)
Roelof Bijker (ICN-UNAM)
- 9:10 The Hunt for New Shell Structure in Neutron-Rich Nuclei
Robert Janssens (Argonne National Laboratory)
- 9:45 Halo Nuclei in a three-body model and universal characteristics of low-energy few-body systems
Lauro Tomio (Universidade Estadual Paulista)
- 10:20 Toward a Global Description of Heavy-Ion Nuclear Reactions
Luis Carlos Chamon (Universidade Sao Paulo)
- 10:55 Coffee Break
- 11:25 Search for the Origins and Limits of Nuclei using FRIB
Dave Morrissey (Michigan State University)
- 12:00 Accelerator-produced Radioisotopes
Miguel Avila-Rodriguez (UNAM, México)
- 12:35 End of Session

WEDNESDAY AFTERNOON, DECEMBER 16

PARALLEL SESSIONS 14:30-18:30

- **A1: Nuclear Structure and Reactions I, Room G108**
- **A2: Applications of Nuclear Physics I, Room G201**
- **A3: Matter and Strong Force (QCD) I, Room G110**
- **A4: Nuclear Instrumentation and Facilities, Room G111**

POSTER SESSION, Geology Hall

WEDNESDAY AFTERNOON, DECEMBER 16

PARALLEL A1: Nuclear Structure and Reactions I, Room G108

Chair: **Paulo Gomes** (Universidade Federal Fluminense)

- 14:30 Masses and nuclear structure
Rick Casten (WNSL, Yale University)
- 15:00 Shell evolution at the oxygen drip line
Calem R. Hoffman (Argonne National Laboratory)
- 15:30 Decay of $^{176,182,188,196}\text{Pt}^*$ nuclei using the dynamical cluster-decay Model
Manoj Kumar Sharma (Thapar University)
- 15:50 Probing the nuclear structure of drip-line nuclei
Lidia S. Ferreira (CFIF/Dep Fisica, IST - Lisboa)
- 16:10 Coffee Break
- 16:40 Microscopic uni-axial Bohr-Mottelson rotational model
Parviz Gulshani (NUTECH Services-Ontário)
- 17:00 High-resolution charge-particle spectroscopy in the study of highly excited structures
Luis Gerardo Sarmiento Pico (Universidad Nacional de Colombia)
- 17:20 Statistics of extremes as an analytical tool in continuum gamma-decay studies
Fernando Cristancho (Universidad Nacional de Colombia)
- 17:40 Comparison of $T_z = \pm 1 \rightarrow 0$ Gamow-Teller transitions in pf-shell nuclei
Francisco Molina Palacios (IFIC-CSIC, Valencia)
- 18:00 End of Session

WEDNESDAY AFTERNOON, DECEMBER 16

PARALLEL A2: Applications of Nuclear Physics I, Room G201

Chairs: Phil Cole (Idaho State), **J. Roberto Morales** (U. de Chile)

- 14:30 Securing the metal recycling chain for the steel industry by detecting orphan radioactive sources in scrap metal
Giuseppe Viesti (INFN & Padova University)
- 14:50 Thin Target PIXE Calibration Using Thick Target Yields"
Fernando R Aguirre (Universidade de Sao Paulo)
- 15:10 Influence of the moisture content in the soil on the response of the neutron backscattering technique for the detection of buried organic objects
Angel H. Cruz (Universidad Nacional de Colombia)
- 15:30 Analysis of thermoluminescent glow peaks of zoisita after beta irradiations
Henry Javier Ccallata (Universidade de Sao Paulo)
- 15:50 Influence of humidity on the scattering of gamma rays in soil
M.L. Cortes (Universidad Nacional de Colombia)
- 16:15 Coffee break
- 16:50 Study of the elemental composition of atmospheric aerosols collected in the Auger South Observatory of cosmic rays, by using the PIXE technique
Maria I. Micheletti (Instituto de Fisica de Rosario)
- 17:10 A robotic system for imaging of chemical elements (XRF) in a large area sample
Rodolfo R. Figueroa (Universidad de la Frontera)
- 17:30 A novel passive in-situ method to determine uranium and possibly hydrogen contents in geological systems
Leonardo Bennun (Universidad de Concepción)
- 17:50 Recent sediment ^{210}Pb (by ^{210}Po) geochronology at Cariaco's trough fault (Venezuela) by Alpha Spectrometry
H. Barros (Universidad Simon Bolivar)
- 18:10 End of Session

WEDNESDAY AFTERNOON, DECEMBER 16

PARALLEL A3: Matter and Strong Force (QCD) I, Room G110

Chair: Will Brooks (Universidad Técnica Federico Santa María)

- 14:30 Modifications of hadrons in the nuclear medium"
Chaden Djalali (University of South Carolina)
- 15:00 Parton saturation in protons and nuclei
Boris Kopeliovich (Universidad Técnica Federico Santa María)
- 15:30 Partonic transverse momentum distributions
Patrizia Rossi (Laboratori Nazionali di Frascati-INFN)
- 16:00 Coffee Break
- 16:30 Quarkonium and heavy-light mesons at finite temperatures"
Gastao Krein (Instituto de Física Teórica - UNESP)
- 17:00 QCD applications of the AdS/CFT correspondence"
Iván Schmidt (Universidad Técnica Federico Santa María)
- 17:30 Hadronic spectra in AdS / QCD correspondence
Alfredo Vega (Universidad Técnica Federico Santa María)
- 17:55 Quark propagation and hadron formation in the nucleus
Hayk Hakobyan (Universidad Técnica Federico Santa María)
- 18:20 End of Session

WEDNESDAY AFTERNOON, DECEMBER 16

PARALLEL A4: Nuclear Instrumentation and Facilities, Room G111

Chair: Modesto Montoya (Instituto Peruano de Energía Nuclear)

- 14:30 Nuclear Structure Studies at the Future FAIR facility
Berta Rubio (CSIC, Valencia, Spain)
- 15:00 Study of neutron-induced fission cross sections of U, Am and Cu at n_TOF
Paolo M Milazzo (INFN Trieste)
- 15:30 MATS: precise Measurements on very short-lived nuclei using an Advanced Trapping System
Daniel Rodríguez (University of Granada, Spain)
- 15:55 Manufacturing and Characterization of Dispersion Miniplates based on Hydrided Umo Powders
Luis Olivares (Comisión Chilena de Energía Nuclear)
- 16:15 Coffee Break
- 16:30 Proton Linac for the Frankfurt Neutron Sources
Christoph Wiesner (University Frankfurt, Germany)
- 17:00 The EURISOL Multi-MW Target Unit: Neutronics, dose rate, shielding and activation calculations
Pedro Vaz (Instituto Tecnológico e Nuclear, Portugal)
- 17:25 Spatial and Time Coincidence Detection of Decay Chain of Short-Lived Radioactive Nuclei
Carlos Granja (Czech Technical University in Prague)
- 17:50 Use of Proportional Counters for Yield Measurement in Extremely Short Pulses of Fast Neutrons: Counting Statistics and Absolute Calibration
Ariel Tarifeño Saldivia (Universidad de Concepción, Chile)
- 18:10 A procedure for the improvement in the determination of a TXRF spectrometer sensitivity curve
Leonardo Bennun (Universidad de Concepción, Chile)
- 18:30 End of Session

THURSDAY MORNING, DECEMBER 17

PLENARY 4: Hadron Structure and Phases of Nuclear Matter, Anfiteatro G108

Chair: Roelof Bijker (ICN-UNAM)

- 9:00 The ALICE experiment at the LHC, first physics results
Gerardo Herrera-Corral (CINVESTAV, Mexico)
- 9:35 Building Nucleons and Nuclei from Quarks and Glue: Recent Results from
Jefferson Lab
Lawrence S. Cardman (Jefferson Laboratory)
- 10:10 The future international Facility for Antiproton and Ion Research
Peter Senger (GSI & University of Frankfurt)
- 10:45 Coffee Break
- 11:15 Chiral effective theory for electromagnetic reactions on light nuclei
Daniel Phillips (Ohio Univeristy)
- 11:50 Nuclear Physics from Lattice QCD
Silas Beane (University of New Hampshire)
- 12:25 End of Session

THURSDAY AFTERNOON, DECEMBER 17

PARALLEL SESSIONS 14:30-18:30

- **B1: Nuclear Structure and Reactions II, Room G108**
- **B2: Applications of Nuclear Physics II, Room G201**
- **B3: Matter and Strong Force (QCD) II, Room G110**
- **B4: Nuclear and Particle Astrophysics, Room G111**

POSTER SESSION, Geology Hall

THURSDAY AFTERNOON, DECEMBER 17

PARALLEL B1: Nuclear Structure and Reactions II, Room G108

Chair: **Fernando Cristancho** (Universidad Nacional de Colombia)

- 14:30 Angular correlations from particle-particle propagation in symmetric nuclear matter
Hugo F. Arellano (University of Chile)
- 14:50 Freeze-out temperature and density in heavy-ion collisions at liquid-gas phase transition
Shalom Shlomo (Texas A&M)
- 15:10 Multi-particle events following negative kaons absorption at rest in light nuclei
Nevio Grión (INFN-Trieste)
- 15:30 Analysis of multifragment emission and the experimental characterization of breakup reactions
Alberto J. Pacheco (Comisión Nacional de Energía Atómica)
- 15:50 Interpretation of quasi-elastic barrier distributions for weakly bound systems
Davi Monteiro (Universidade Federal Fluminense)
- 16:10 Coffee Break
- 16:40 Elastic scattering and total reaction cross section for the ${}^8\text{Li}+{}^{12}\text{C}$ system
Adriana Barioni (Universidade de Sao Paulo)
- 17:00 New Hk-EOS Method for the Investigation of the nuclear continuum
Edana Merchán (GSI)
- 17:20 Neutron emission effects on mass and kinetic energy distribution of ${}^{239}\text{Pu}$ induced by thermal neutrons
Modesto Montoya (Instituto Peruano de Energía Nuclear)
- 17:40 A new technique to investigate total reaction cross sections
Julian Marco Barbosa Shorto (Universidade Federal Fluminense)
- 18:00 End of Session

THURSDAY AFTERNOON, DECEMBER 17

PARALLEL B2: Applications of Nuclear Physics II, Room G201

Chairs: **Miguel A. Avila** (UNAM), **Carlos Granja** (Prague)

- 14:30 Blood levels on Zinc in criolo horses used in sera production
Tatyana S. Baptista (Instituto de Pesquisas Energéticas e Nucleares)
- 14:50 Experimental and simulated characterization of a Beam Shaping Assembly for Accelerator-Based Boron Neutron Capture Therapy (AB-BNCT)
Alejandro A. Burlon (Comision Nacional de Energia Atomica, CNEA-UNSAM)
- 15:10 Progress in the development of a tomographic SPECT system for online dosimetry in BNCT
Alejandro A. Valda (UNSAM and CNEA, Argentina)
- 15:30 Cyclotron laboratory program advance status
Mario Avila. (Comision Chilena de Energia Nuclear)
- 15:55 Developing and improving a scanning system for dosimetric applications
P. Perez (Universidad Nacional de Cordoba)
- 16:15 Coffee break
- 16:50 Sodium analysis in whole blood of athletes using NAA
L. Kovacs (Instituto de Pesquisas Energéticas e Nucleares)
- 17:10 3D dose and Tumour Control Probability distribution for radionuclide therapy in nuclear medicine
Mauro Valente (Universidad Nacional de Cordoba) *
- 17:30 Measurement of the reaction cross section for $^{63}\text{Cu}(d,p)^{64}\text{Cu}$ at 2.4 MeV
J. Roberto Morales (Universidad de Chile)
- 17:50 End of Session

* Not yet confirmed

THURSDAY AFTERNOON, DECEMBER 17

PARALLEL B3: Matter and Strong Force (QCD) II, Room G110

Chair: Norberto Scoccola (Comisión Nacional de Energía Atómica, Argentina)

- 14:30 The X(3872)
Tom Mehen (Duke University)
- 15:00 The new hidden charm states
Marina Nielsen (University of São Paulo)
- 15:30 Hadron Loops in the Quark Model
Roelof Bijker (ICN-UNAM)
- 16:00 Coffee Break
- 16:30 Excited baryons in electro-, photo-, and J/Psi production
Phil Cole (Idaho State University)
- 17:00 New Results of Nucleon Electromagnetic Elastic Form Factors
Shalev Gilad (MIT)
- 17:30 Experimental background studies in Two Photon Exchange (TPE) experiment at Jefferson Lab
Cristian Peña (Universidad Técnica Federico Santa María)
- 17:55 Pion form factors in the Kroll-Lee-Zumino model
Marcelo Loewe (Pontificia Universidad Católica de Chile)
- 18:20 Meson wave function from holographic models
Alfredo Vega (Universidad Técnica Federico Santa María)
- 18:45 End of Session

THURSDAY AFTERNOON, DECEMBER 17

PARALLEL B4: Nuclear and Particle Astrophysics, Room G111

Chair: **Cesar Domingo** (GSI-Darmstadt)

- 14:30 Identification of μ s isomers in the ^{100}Sn region
Ana Becerril (NSCL, USA)
- 15:00 Evidence for correlations between nuclear decay rates and solar activity
Jere Jenkins (Purdue Univ., USA)
- 15:30 Periodicities in Nuclear Decay Data: Systematic Effects or New Physics?
Robert Lee (US Air Force Academy)
- 16:00 Gamow-Teller transitions studied in ($^3\text{He},t$) reaction and analogous beta-decay
Yoshitaka Fujita (Osaka University, Japan)
- 16:30 Coffee Break
- 17:00 Microscopic description of nuclear matter at subnuclear densities
Virginia de la Mota (Univ. Nantes, France)
- 17:30 Nuclear Astrophysics at n_TOF facility at CERN
Giuseppe Tagliente (INFN, Bari, Italy)
- 18:00 Rotochemical heating in Millisecond Pulsars with Cooper pairing
Cristobal Petrovich (Universidad Catolica de Chile)
- 18:20 Internal Heating of Old Neutron Stars: Constrasting Different Mechanisms
Denis Gonzalez (Universidad Catolica de Chile)
- 18:40 End of Session

FRIDAY MORNING, DECEMBER 18

PLENARY 5: Physics beyond the Standard Model, Anfiteatro G108

Chair: Michael Musolf-Ramsey (University of Wisconsin)

- 9:00 Precision mass measurements for physics beyond the Standard Model
Klaus Blaum (Max-Planck-Institute for Nuclear Physics, Heidelberg)
- 9:35 $|V_{ud}|$ from nuclear mirror transitions and precision measurements with atom/ion traps
Oscar Naviliat-Cuncic (University of Caen Lower Normandy)
- 10:10 Search for the Neutron Electric Dipole Moment
Brad Plaster (University of Kentucky)
- 10:45 Coffee Break
- 11:15 Neutrino Experiments
Robert D. McKeown (Caltech)
- 11:50 Recent results and future perspectives of the high-energy spin physics program at RHIC at BNL
Bernd Surrow (MIT)
- 12:25 Message from the APS Committee on International Freedom of Scientists
Michael Musolf-Ramsey
- 12:35 End of Session

FRIDAY AFTERNOON, DECEMBER 18

PARALLEL SESSIONS 14:30-18:30

- **C1: Nuclear Structure and Reactions III, Room G108**
- **C2: Applications of Nuclear Physics III, Room G201**
- **C3: Matter and Strong Force (QCD) III, Room G110**
- **C4: Fundamental Symmetries and Neutrinos, Room G111**

20:00 Banquet

FRIDAY AFTERNOON, DECEMBER 18

PARALLEL C1: Nuclear Structure and Reactions III, Room G108

Chair: **Alberto Pacheco** (Comisión Nacional de Energía Atómica, Argentina)

- 14:30 A new island of inversion far from stability
Silvia M. Lenzi (University of Padova)
- 15:00 Measurements of isomeric ratios for the production of $^{110,111,112}\text{In}$, ^{85}Y and ^{196}Au isomeric pairs with bremsstrahlung induced photonuclear reactions
Md. Shakilur Rahman (Kyungpook National University)
- 15:20 DSAM lifetimes of ^{46}Ti yrare levels
Nilberto Heder Medina (Universidade de São Paulo)
- 15:40 Interplay between the ^8B breakup and other reaction mechanisms by means of the CDCC method
Jesus Lubian Rios (Universidade Federal Fluminense)
- 16:00 Isomer studies in the $f_{7/2}$ shell
Pedro Montuega (Universidad Simon Bolivar)
- 16:20 Coffee Break
- 16:50 Study of DCX reaction on medium nuclei with Monte-Carlo shell model
Huachuan Wu (Universidad de Antioquia)
- 17:10 Solution of 3D Faddeev integral equations with 3NFs
Mohammadreza Hadizadeh (IFT - UNESP)
- 17:30 Four-body reactions of light nuclei
Mantile Leslie Lekala (University of South Africa)
- 17:50 Breakup coupling effects on the fusion of weakly bound systems
Paulo Gomes (Universidade Federal Fluminense)
- 18:10 Two-dimensional multiplicity fluctuation analysis of target residues in nuclear collisions
Zhang Donghai (Shanxi Normal University)
- 18:30 End of Session

FRIDAY AFTERNOON, DECEMBER 18

PARALLEL C2: Applications of Nuclear Physics III, Room G201

Chairs: Fernando Cristancho (UNC, Colombia), **Giuseppe Viesti** (Padova)

- 14:30 A new facility for Non-Destructive Assay with a time-tagged ^{252}Cf source
Laszlo Sajo-Bohus (INFN y Universidad Simon Bolivar)
- 14:50 A new ^{14}C AMS facility at UFF Niteroi-Brazil
Paulo Gomes (Universidad Federal Fluminense)
- 15:10 Analysis of archaeological pottery of Lalima Village, Brazil
J.F. Curado (Universidade de São Paulo)
- 15:30 Photofission of Actinides with Linearly Polarized Photons
Daniel Dale (Idaho State University)
- 15:50 Characterization of a new method for in vivo XRF
Enrique Lozano (Universidad de la Frontera)
- 16:15 Coffee break
- 16:50 Studies on scaling laws for plasma focus as neutron generator:
Similarities and differences in devices from 1MJ to 0.1J
Leopoldo Soto (Comision Chilena de Energia Nuclear)
- 17:10 Portable non radioactive neutron source for field applications based on
plasma focus technology
Leopoldo Soto (Comision Chilena de Energia Nuclear)
- 17:30 End of Session

FRIDAY AFTERNOON, DECEMBER 18

PARALLEL C3: Matter and Strong Force (QCD) III, Room G110

Chair: Marina Nielsen (Universidade de Sao Paulo)

- 14:30 Large N_c QCD
Norberto Scoccola (Comisión Nacional de Energía Atómica)
- 15:00 Study of the B_s meson with first LHC data at CMS
Barbara Millan Mejias (University of Zurich)
- 15:25 Incoherent photoproduction of π_0 and η from complex nuclei up to 12 GeV
Tulio Rodrigues (University of São Paulo)
- 15:50 Mass and density effects in the QCD phase transition
Cristian Villavicencio (Pontificia Universidad Católica de Chile)
- 16:15 Coffee Break
- 16:45 Derivative expansion of the Adler function and the semihadronic tau decay ratio
Cristian Valenzuela (Pontificia Universidad Católica de Chile)
- 17:10 Jet quenching measurements with ATLAS at LHC
Will Brooks (Universidad Federico Santa Maria)
- 17:35 End of Session

FRIDAY AFTERNOON, DECEMBER 18

PARALLEL C4: Fundamental Symmetries and Neutrinos, Room G111

Chair: Brad Plaster (University of Kentucky)

- 14:30 TREK: A Search for Time Reversal Symmetry Violation in Charged Kaon Decays
Michael Kohl (Hampton University)
- 15:00 The Qweak Experiment: A search for physics beyond the Standard Model via a measurement of the proton's weak charge
Michael Gericke (University of Manitoba)
- 15:30 Precision Measurement of the Weak Mixing Angle in Moeller Scattering at 12 GeV
David Mack (Jefferson Laboratory)
- 16:00 Hadronic structure effects in PVES
Mikhail Gorshteyn (Indiana University)
- 16:30 Coffee Break
- 17:00 Measurement of the neutron lifetime with magnetically stored ultra-cold neutrons
Oscar Naviliat-Cuncic (University of Caen Lower Normandy)
- 17:30 Sensitivity reach of the neutron EDM experiment: The Electric Field Strength
Raul Hennings-Yeomans (Los Alamos National Laboratory)
- 18:00 New advances in neutrinoless double beta decay matrix elements
Jose Barea (Consejo Superior de Investigaciones Científicas)
- 18:30 End of Session

SATURDAY MORNING, DECEMBER 19

PLENARY 6: Applications of Nuclear Physics, Sala Gorbea

Chair: Andres Kreiner (CNEA-UNSAM, Argentina)

- 9:35 Subtraction of digital mammography images using a contrast agent
María-Ester Brandan (UNAM, México)
- 10:10 Opportunities for Applied Accelerator Science
Douglas P. Wells (Idaho State University)
- 10:45 Coffee Break
- 11:15 Nuclear Energy in Argentina
Carlos J. Gho (Centro Atomico Bariloche)
- 11:50 Exotic Nuclei in South America
Rubens Lichtenthaler (Universidade Sao Paulo)
- 12:25 End of Session

SATURDAY AFTERNOON, DECEMBER 19, Sala Gorbea

Workshop on Nuclear Physics Activities in Latin America, Sala Gorbea