

## Conference Program

	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
8:00-8:50	<b>Registration</b>				
8:50-9:00	<b>Opening</b>				
9:00-10:00	Electroweak model and constraints on new physics <b>J. Erler</b>	Excited mesons and baryons: the Jlab 12 GeV upgrade <b>B. El-Bennich</b>	A gauge explanation for the B-meson anomalies <b>A. Vicente</b>	CP Violation <b>C. Ramirez</b>	Recent Results of AMS on the ISS <b>A. Oliva</b>
10:00-10:30	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>
10:30-11:30	SM: exp. status <b>D. Moreno</b>	Super-horizon growth of adiabatic perturbations in single field inflationary models <b>A. Enea Romano</b>	Susy searches <b>A. Gurrola</b>	Particle Dark Matter, New Physics from the Skies <b>F. Iocco</b>	Redefining the Axion Window <b>E. Nardi</b>
11:30-12:30	<b>Specialized talks</b> Mo1 Mo2 Mo3	<b>Specialized talks</b> Tu1 Tu2 Tu3	Dark Matter and the Hidden Sector <b>B. Acharya</b>	<b>Specialized talks</b> Th1 Th2 Th3	<b>Specialized talks</b> Fr1 Fr2 Fr3
12:30-14:20	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
14:20-15:20	Higgs physics results <b>C. Avila</b>	Neutrino Physics with NOvA <b>E. Arrieta</b>	<b>Bus tour in Medellín</b>	Neutrino Physics - Present and Future <b>A. de Gouvêa</b>	10 years studying the highest energy particles in the universe: results of the Pierre Auger Observatory <b>F. Sánchez</b>
15:20-16:20	<b>Specialized talks</b> Mo4 Mo5 Mo6	<b>Specialized talks</b> Tu4 Tu5 Tu6		<b>Specialized talks</b> Th4 Th5 Th6	Latest results from T2K and other neutrino oscillation experiments <b>Y. Oyama</b> <b>Specialized talks</b> Fr4
16:20-16:40	<i>Coffee break</i>	<i>Coffee break</i>		<i>Coffee break</i>	<i>Coffee break</i>
16:40-17:40	<b>Specialized talks</b> Mo7 Mo8 Mo9	Results in Experimental Heavy Flavor Physics and CP violation <b>A. C. Dos Reis</b>		<b>Specialized talks</b> Th7 Th8 Th9	<b>Specialized talks</b> Fr5  <b>Closing</b>
17:40-19:00	<b>Opening reception</b>	<b>Poster session</b>		(18:00-19:00) Public Lecture: Las constantes fundamentales de la naturaleza y la física moderna <b>Enrico Nardi</b>	
19:00-21:30				<b>Dinner</b>	

## Plenaries

Plenary number	Speaker	Institution	Talk Title
P1	Jens Erler	Universidad Nacional Autónoma de México UNAM, México	Electroweak model and constraints on new physics
P2	Deywis Moreno	Universidad Antonio Nariño, Colombia - ATLAS Experiment	SM: experimental status
P3	Carlos Ávila	Universidad de los Andes, Colombia - CMS Experiment	Higgs physics results
P4	Bruno El-Bennich	Universidade Cruzeiro do Sul, Brazil	Excited mesons and baryons: the Jlab 12 GeV upgrade
P5	Carlos Ramirez	Universidad de Los Andes, Colombia	CP Violation
P6	Alberto Correa Dos Reis	Centro Brasileiro de Pesquisas Físicas CBPF-, Brazil	Results in Experimental Heavy Flavor Physics and CP violation
P7	Enrique Arrieta	Southern Methodist University, U.S. - NOvA Experiment	Neutrino Physics with NOvA
P8	Avelino Vicente	Instituto de Física Corpuscular, España	A gauge explanation for the B-meson anomalies
P9	Alfredo Gurrea	Vanderbilt University, U.S.	Susy searches
P10	Bobby Acharya	King's College London, UK - ICTP, Italy	Exotic physics
P11	Antonio Enea Romano	Universidad de Antioquia, Colombia	Super-horizon growth of adiabatic perturbations in single field inflationary models
P12	Fabio Iocco	ICTP-South American Institute for Fundamental Research - UNESP, Brazil	Particle Dark Matter, New Physics from the Skies
P13	André de Gouvêa	Northwestern University, U.S.	Neutrino Physics - Present and Future
P14	Alberto Oliva	Centro de Investigaciones Energéticas Medioambientales y Tecnológicas CIEMAT, España	Recent Results of the Alpha Magnetic Spectrometer on the International Space Station
P15	Enrico Nardi	Instituto Nazionale di Fisica Nucleare, Italy	Redefining the Axion Window
P16	Yuichi Oyama	Institute of Particle and Nuclear Studies-T2K, Japan	Latest results from T2K and other neutrino oscillation experiments
P17	Federico Sánchez	Instituto de Tecnologías en Detección y Astropartículas, Argentina	10 years studying the highest energy particles in the universe: results of the Pierre Auger Observatory
Public Lecture	Enrico Nardi	Instituto Nazionale di Fisica Nucleare, Italy	Las constantes fundamentales de la naturaleza y la física moderna
Closing	Diego Restrepo & Carlos Sandoval	Universidad de Antioquia Universidad Antonio Nariño	Theory talks summary Experimental talks summary

### Specialized talks

Talk	Speaker	Institution	Title
Mo1	Nicolás Bernal	Universidad Antonio Nariño	Dark matter with strong self-interactions
Mo2	Maikel de Vries	JGU Mainz	Strongly Coannihilating Dark Matter at the LHC
Mo3	Amalia Betancur	Universidad de Antioquia	Doublet-triplet fermion dark matter and neutrino masses
Mo4	Miguel Angel Martin	Universidad de los Andes	Holographic Picture of Heavy Vector Meson Melting
Mo5	Alexis Aguirre	Universidad de Nariño	Tratamiento canónico de la ecuación de Proca
Mo6	Oscar Fino	Universidad del Tolima	Non-leptonic Decays of Bs to Radial Excitations of K(1460) and K*(1410)
Mo7	Joel Jones-Perez	Pontificia Universidad Católica del Perú	Neutrino Visible Decay at T2K
Mo8	Nestor Quintero Poveda	Universidad Santiago de Cali	Low-energy lepton number violating processes: GeV-scale Majorana neutrinos and short-range mechanisms
Mo9	Bruce Sanchez	Instituto de Física Teórica, IFT, SP-Brazil	Mu-tau reflection symmetry with texture zeros
Tu1	Andrés Florez	Universidad de los Andes	Probing the Stau-Neutralino Coannihilation Region at the LHC with a soft tau lepton and an ISR jet
Tu2	Federico von der Pahlen	Universidad de Antioquia	Radiative Type III Seesaw Model and its collider phenomenology
Tu3	Diego Restrepo	Universidad de Antioquia	Reproducible research with HEP-Tools
Tu4	Eduardo Rojas	Universidad de Antioquia	Flipped models in Trinification
Tu5	Oscar Rodríguez	Universidad de Antioquia	A minimal non-universal EW extension of the Standard Model A chiral family of models
Tu6	Manuel Segura	Universidad de los Andes	Phenomenological study of Monotop channels in search of physics beyond standard model.
Th1	Rafael Nuñez	Universidad Nacional de Colombia - Bogotá	Performance of the LHCb trigger system.
Th2	José David Ruiz	Universidad de los Andes (CO)	CMS muon system upgrade with Gas Electron Multiplier detectors
Th3	Tomás Sierra	Universidad del Tolima	Configuration of the Operation Modes for LHCb's Scintillating Fibers at LPNHE.

Th4	Jorge Nisperuza	Fundación Universitaria Los Libertadores	Limits to the parameters space in some SM extensions by using data from DM direct and indirect detection experiments.
Th5	Robinson Longas	Universidad de Antioquia	The Inert Doublet Model from Peccei-Quinn Symmetry
Th6	Andrés Rivera	Universidad de Antioquia	Dark matter annihilation into photons
Th7	César Augusto Arroyave	Universidad de Antioquia	Calculating the Sachs-Wolfe effect from solutions of null geodesics in perturbed FRW spacetime
Th8	Sergio Vallejo	Universidad de Antioquia	Low red-shift effects of local structure on the Hubble parameter in presence of a cosmological constant.
Th9	Mauricio Suarez	Universidad Industrial de Santander	Astro-partículas en el Oriente Colombiano
Fr1	Cesar Leal	Universidad Simón Bolívar -Venezuela	Ghost Track Candidates at LHCb Experiment.
Fr2	Ignacio Monroy	Universidad Nacional de Colombia - Bogotá	Charmed Baryon Spectroscopy at LHCb Experiment
Fr3	Fredy Mojica	Universidad del Tolima	Radially excited vector mesons: a Bethe-Salpeter-Schwinger-Dyson approach
Fr4	Luis Echeverri	Universidad de Nariño	Neutrinos en el aula de clases
Fr5	Humberto Triviño	Universidad del Tolima	Heavy Quarks and LCSR's.