

XXXII Reunión Anual División de Partículas y Campos, SMF

28, 29 y 30 de Mayo de 2018, Instituto de Ciencias nucleares, UNAM

Actualizado al 26 mayo 2018

Preliminary Program

	Mon, May 28	Tue, May 29	Wed, May 30
08:00 – 08:30	Registration		
08:30 – 09:00	Inauguration		
09:00 – 09:30	<i>Probing the original liquid with jets</i> Ma. Elena Tejeda (QHP)	<i>Cosmic ray accelerators and gamma-ray surveys</i> Alberto Carramiñana (APC)	<i>Current status and future of RPC detectors and related technology in HEP, Cosmic Rays and other applications as imaging, muonography and therapy.</i> Mexican Perspectives Salvador Carrillo (FEP)
09:30 – 10:00	<i>El experimento ALICE y la contribución de Mexico en El programa de actualización.</i> Gerardo Herrera (QHP)	<i>Backpack for a journey Beyond the Standard Model: Symmetries, scale invariance, and masses</i> Myriam Mondragón (BSM)	<i>The updated electroweak fit</i> Jens Erler (FEP)
10:00 – 10:30	<i>The coupling of the Pontryagin density to gauge theories</i> Luis F. Urrutia (FUN)	<i>Physics BSM and QFT BFD</i> Lorenzo Diaz-Cruz (BSM)	<i>Zero noise imaging detector for Dark Matter, Neutrinos and Astrophysics</i> Juan Estrada (NDM)
10:30 – 11:00	<i>Generalized entropies as function only on the probability or the Density Matrix</i> Octavio Doregón (FUN)	<i>Bosones ultra-ligeros como candidatos de materia oscura en el Universo</i> Luis Ureña (APC)	<i>Neutrinos: Dark matter probe or dark matter candidate?</i> Juan Barranco (NDM)
11:00 – 11:30	Coffee break	Coffee break	Coffee break
11:30 – 11:50	<i>Recent CMS results on B hadrons and quarkonia: production and properties.</i> HEREDIA DE LA CRUZ, Ivan QHP-E1	General Assembly	<i>Detección de materia oscura y neutrinos con cámaras de burbujas centelleadoras</i> ZUÑIGA REYES, Anel NDM-E3
11:50 – 12:10	<i>Two-particle correlation studies and production of the Higgs in association with a single top quark with the CMS experiment at CERN</i> MURILLO QUIJADA, Javier Alberto QHP-E2		<i>L to τ τ^+ τ^- LFV decays in the SM with massive neutrinos</i> HERNÁNDEZ-TOMÉ, Gerardo NDM-T1
12:10 – 12:30	<i>Transverse momentum dependent parton evolution – a possibility for precision physics at the LHC?</i> HENTSCHINSKI, Martin QHP-T1		<i>Type-II Dirac neutrino seesaw in a flavor model</i> LAMPREA, Mario NDM-T2
12:30 – 12:50	<i>What is the right formalism to search for resonances?</i> FERNÁNDEZ RAMÍREZ, César QHP-T2		<i>The $M1 \rightarrow 11$ $M2$ decay</i> SÁNCHEZ-GARCÍA, Maril NDM-T3
12:50 – 13:10	<i>Underlying event studies using LHC data</i> VALENCIA-PALOMO, Lizardo QHP-E3		<i>Estudio de los espectros de energía obtenidos al exponer un CCD a una fuente de ^{252}Cf</i> CERVANTES VERGARA, Brenda Aurea NDM-E4
13:10 – 13:30	<i>Study of deconfinement phase transition in the color string percolation approach in ALICE at LHC</i> MISHRA, Aditya Nath QHP-E4		<i>Interinstitutional collaboration for the research and development of Particle accelerator technology in Mexico</i> CANTUN, Karla ACC*
13:30 – 15:30	Lunch (ICN)	Lunch (ICN)	End of meeting
15:30 – 15:50	<i>Belle II Status</i> PODESTA, Pedro QHP-E5	<i>MATHUSLA: From the subatomic world to the stars</i> ARTEAGA VELAZQUEZ, Juan Carlos APC-E2	
15:50 – 16:10	<i>Critical chiral hypersurface of the magnetized NJL model</i> MARTINEZ, Angelo QHP-T3	<i>Limits on LIV from ultra-high energy astrophysics</i> MARTINEZ, Humberto APC-T1	
16:10 – 16:30	<i>Flavor symmetries in heterotic orbifolds</i> OLGUIN-TREJO, Yessenia FEP-T1	<i>The pion transition form factor in the SDE-BSE approach</i> COBOS-MARTINEZ, Javier QHP-T5	
16:30 – 16:50	<i>Effective field theory analysis of the $\tau \rightarrow \pi \pi^+ \nu_\tau$ decays</i> MIRANDA HERNÁNDEZ, Jesús Alejandro QHP-T4	<i>Chromomagnetic and chromoelectric dipole moments of the top quark in the 4GTHDM</i> HERNÁNDEZ-JUÁREZ, Alan Ignacio BSM-T1	
16:50 – 17:10	<i>High spins and Lorentz- and Spinor-Tensor carrier spaces of the Lorentz group and a road toward quantization</i> BANDA, Víctor FUN-T1	<i>Observing the coupling constant of stringy Z'</i> PÉREZ, Ricardo BSM-T2	
17:10 – 17:30	<i>Enfriamiento acelerado del núcleo estelar: una alternativa para explicar la presencia de enanas blancas de helio en cúmulos globulares</i> ARCEO, Santiago APC-E1	<i>Higgs boson production via Higgs-strahlung and associated Higgs boson-top pair production at ILC and CLIC in a B-L extension of the SM</i> RAMÍREZ-SÁNCHEZ, Francisco BSM-T3	
17:30 – 18:00	Coffee break	Coffee break	
18:00 – 18:20	Poster session	<i>Oscilaciones de neutrinos para el estudio del interior de la Tierra</i> HERRERA LARA, José Arnulfo NDM-E1	
18:20 – 18:40		<i>Luminous events and their detection from space with the TUS</i> RUIZ HERNÁNDEZ, Oliver Isaac APC-E3	
18:40 – 19:00		<i>Liquid argon energy response to nuclear recoils</i> MARTINEZ MENDOZA, Angel Michell NDM-E2	

QHP: QCD & Hadron Physics
 FUN: Fundamental Physics
 APC: Astroparticles and Cosmology
 BSM: Beyond the Standard Model
 NDM: Neutrinos & Dark Matter
 FEP: Flavor & Electro-Weak Physics
 ACC: Accelerator Physics (*Special talk)

