

Tuesday 15 November

16:30

Pizza and poster session

Session | **Location:** USFQ main campus, Tesorería Hall

16:30-18:30

LAGO studies to detect Gamma-Ray Burst and High Energy Astrophysics sources using water Cherenkov detector arrays

Speaker

Luis Otiniano

16:30-18:30

Model-independent radiative corrections to particle decay \$\Omega^{-} \rightarrow\Xi^{0}+\bar{\nu}_{e^{-}}+e^{-}\$

Speaker

Marco Antonio Pulido Solis

16:30-18:30

Machine learning applied to particle classification in LAGO Water Cherenkov **Detectors**

Speaker

Luis Otiniano

16:30-18:30 Anomaly-free abelian gauge symmetries with neutrino mass models

Speaker

KIMY JOHANA AGUDELO JARAMILLO

16:30-18:30

A New Method for noise rejection in the Water Cherenkov Detectors of the LAGO project through Muon Decay measurement

Speaker

CESAR M. CASTROMONTE FLORES

16:30-18:30 On the viability of a light scalar spectrum for 3-3-1 models

Speaker

Adriano Cherchiglia

Estimation of the Electron Shaking Probability of Low-Energy 7Be Decay Spectra in Superconducting Quantum Sensors for the BeEST Sterile Neutrino Search **Experiment**

Speaker

Sergio Oscar Nuñez Silva

16:30-18:30

Construction of a traversable wormhole from a suitable embedding function

Speaker

Alejandro Rueda

16:30-18:30

An analysis of the Ruppeiner geometry and the thermodynamics of extremal black holes

Speaker

Pedro Zottolo

16:30-18:30 Calculation of masses and amplitudes of pseudoscalar mesons

Speaker

Ruben Hernando Criollo Estrella

16:30-18:30

Testing the feasibility to measure acausally wrong displaced vertices from Lee-Wick particle decays with CMS experiment open data

Speaker

Jonathan Sanchez

16:30-18:30 Modified Pati-Salam model for flavor anomalies

Speaker

Oscar Rosero

16:30-18:30

Response of a modular scintillation detector to a secondary cosmic ray muon flux

Speaker

Luis Otiniano

16:30-18:30 Faddeev-Jakiw Formulation to Schwinger Model on the Null-Plane

Speaker

Dr German Ramos Zambrano

Five texture zeros in the lepton sector and neutrino oscillations at DUNE

Speaker

Richard Benavides

16:30-18:30

Seeking \$SU(3)_c\otimes SU(3)_L\otimes U(1)_X\$ models without exotic electrical charges

Speaker

Prof. Yithsbey Giraldo Úsuga

16:30-18:30

The Ecuadorian experience with the CMS open data initiative and future projects

Speakers

Daniela Merizalde Aguirre, Jose David Ochoa Flores, Luis Andres Chicaiza Chuquitarco, Pamela Llerena Delgado

16:30-18:30 Machine Learning Techniques and Algorithms used in HEP

Speaker

Xavier Tintin

18:30