

Monday 14 November

14:45

Parallel session A

Session | Location: USFQ main campus, Calderón de la Barca theater | Convener: Melissa Maria Cruz Torres

14:45-15:00 Leptonic CP violation from a vector-like lepton

Speaker

Adriano Cherchiglia

15:00-15:15 B-meson anomalies and the Triplet vector boson model.

Speaker

Eduardo Rojas

15:15-15:30

A highlight of multiboson interactions, their polarization and photon-induced access to tau g-2 at ATLAS

Speaker

Prachi Atmasiddha

15:30-15:45 Recent searches for new phenomena with the ATLAS detector

Speaker

Sebastien Rettie

15:45-16:00 ATLAS searches for supersymmetry with long-lived particles

Speaker

Risa Ushioda

16:00 16:30

Parallel session A

Session | Location: USFQ main campus, Calderón de la Barca theater | Convener: Eduardo Rojas

16:30-16:45 Magnetic Monopoles and Monopolium in pp Collisions

Speaker

Maria Beatriz De Leone Gay

16:45-17:00

DNNs and Jet Substructure for Improved Double-Higgs Searches at the HL-LHC and Beyond

Speaker

Santiago Rafael Paredes Saenz

17:00-17:15

Improving Signal Significance of SUSY Compressed Scenarios by Machine Learning Algorithms

Speaker

Jorge Fernando Fraga Flores

17:15-17:30 Fermionic dark matter in a Left-Right Model with mirror fermions

Speaker

Dr Mario Lamprea

17:30

Tuesday 15 November

14:45

Parallel session A

Session | Location: USFQ main campus, Calderón de la Barca theater | Convener: José Bazo

14:45-15:00

Neutron Inelastic Cross Section Measurement on Argon with ProtoDUNE Single-

Speaker

David Orlando Rivera Jr

15:00-15:15 Status and perspectives of the CONNIE experiment

Speaker

Irina Nasteva

15:15-15:30 Effective Dirac neutrino masses in local Abelian symmetries

Speaker

DIEGO ALEJANDRO RESTREPO QUINTERO

15:30-15:45

Assessment of the dimension-5 seesaw portal and impact of exotic Higgs decays on non-pointing photon searches

Speaker

Dr Joel Jones-Perez

15:45-16:00

Oscillation tomography study of Earth's composition with atmospheric neutrinos

José Arnulfo Herrera Lara

16:00

Thursday 17 November

14:45

Parallel session A

Session | Location: USFQ main campus, Casa Blanca theater | Convener: Santiago Rafael Paredes Saenz

14:45-15:00

Probing the nature of electroweak symmetry breaking with Higgs boson pairs in **ATLAS**

Speaker

Dan Guest

15:00-15:15

Higgs boson property measurements at the ATLAS experiment

Speaker

Gabriel Facini

15:15-15:30

Measurements and searches for Higgs boson decays to bottom and charm quarks with the CMS Experiment

Speaker

Alejandro Gomez Espinosa

15:30-15:45 ATLAS searches for supersymmetry with prompt particles

Speaker

David Miller

15:45-16:00 Searching for new symmetries in the Higgs sector at ATLAS

Speaker

Adriana Milic

16:00 16:30

Parallel session A

Session | Location: USFQ main campus, Casa Blanca theater | Convener: Alejandro Gomez Espinosa

16:30-16:45 Quarkophobic W' for LHC searches

Speaker

Jose Ruiz

16:45-17:00

From initial gluon saturation to final state hadrons: quantum entanglement in particle collisions

Speaker

Rene Bellwied

17:00-17:15 The X17 boson anomaly: status and prospects

Speaker

Enrico Nardi

17:15