

Session Program

30 November 2020 to 4 December 2020



**5th ComHEP: Colombian Meeting on High
Energy Physics**

Formal theory

Sunday 29 November

15:00

Formal theory: Phenomenology

Session | **Location:** | **Conveners:**

Carlos Sandoval Usme, Gabriela Alejandra Navarro, Dr José David Ruiz Álvarez, Carlos Andres Florez Bustos

15:00-15:20

3-3-1 model with right neutrinos, implemented in SARAH and SPheno

Speaker

Dr Alex Tapia

15:20-15:40

Explaining muon $g-2$ anomaly in a non-universal $U(1)_X$ extended SUSY theory

Speaker

Juan Sebastian Alvarado Galeano

15:40-16:00

External Momentum Dependence from the Higgs Boson Mass

Speaker

Edilson Alfonso Reyes Rojas

16:00-16:20

Quantum Machine Learning concepts for HEP

Speaker

Ms Vijayasri Iyer

16:20-16:40

Discussion

18:00

Monday 30 November

08:00

Formal theory: Theory

Session | **Location:** | **Conveners:** Alexander Moreno Briceño, Andrés Fernando Castillo Ramírez

08:00–08:30

EFTs: Bounding the systematic uncertainties of the Inverse Amplitude Method

Speaker

Felipe J. Llanes-Estrada

08:30–08:40

Questions

08:40–09:10

Scattering Amplitudes: QCD and gravity applications

Speaker

Dr William J. Torres Bobadilla

09:10–09:20

Questions

09:20–09:35

Break

09:35–09:55

Algebraic approach to scattering amplitudes

Speaker

Cristhiam Lopez Arcos

09:55–10:15

Non-linear Regge trajectories with AdS/QCD

Speaker

Miguel Angel Martín Contreras

10:15–10:35

Noncommutative momentum and torsional regularization

Speaker

Nikodem Poplawski

10:35–10:55

Generation of Carroll-Field-Jackiw term in Horava-Lifshitz $z=3$ CPT-violating QED

Speaker

Mr Ricardo Martínez

10:55–11:15

Discussion

11:15