

## **Session Program**

**29 November 2021 to 3 December 2021**



## **6th ComHEP: Colombian Meeting on High Energy Physics**

***Theory - Phenomenology***

# Friday 3 December

08:00

## Theory - Phenomenology

**Session** | **Conveners:** Oscar Zapata, Eduardo Rojas, Alexander Moreno Briceño

08:00–08:30

### Beyond the Standard Model Physics

**Speaker**

Jose Valle

08:30–09:00

### Muon and tau decays in the Standard Model and beyond

**Speaker**

Pablo Roig

09:00–09:30

### The Nambu Goldstone Theorem and Integrability

**Speaker**

Ivan Arraut

09:30–09:50

### Discovering the new physics of $(g-2)_\mu$ at colliders

**Speaker**

Rodolfo Capdevilla

09:50–10:05

### Break

10:05–10:25

### The Standard Model of Particle Physics as an effective theory from two non-universal $U(1)$ 's

**Speaker**

Prof. Richard Benavides

10:25–10:45

### SpaceMath: A Mathematica package for beyond the standard model parameter space searches.

**Speaker**

Tomás Antonio Valencia Pérez

10:45–11:05

### Effective potential and dynamical symmetry breaking up to five loops in a massless abelian Higgs model

**Speaker**

Dr Andres Gómez Quinto

11:05–11:25

### Search for new physics in the final state $B-\tau-\nu$

**Speaker**

Tomas Atehortua Garces

11:25–11:30

### Cálculo del Potencial cuántico de Broglie Bohm para un oscilador armónico dependiente del tiempo

**Speaker**

Dr Jairo Alonso Mendoza Suárez

11:30–11:35

**Systematic study of 3-3-1 models without exotic electric charges****Speaker**

Yithsbey Giraldo Úsuga

11:35–11:40

**A minimal axion model for mass matrices with five texture-zeros****Speaker**

Dr Juan Carlos Montenegro

11:40–11:45

**Faddeev-Jackiw quantization of Proca's Electrodynamics on the null-plane****Speaker**

German Zambrano

11:45–11:50

 **$g-2$  anomaly and minimal models for the  $Z'$** **Speaker**

Ms Laura Muñoz

11:50–11:55

**Lepton masses for a non Universal U(1) model with 2 right-handed massive neutrinos****Speaker**

Ricardo Andres Jaimes Campos

11:55–12:00

**Lepton masses in a non universal U(1) model with three families****Speaker**

Mr Camilo Andrés Cortés Parra

12:00–12:05

**Supersymmetric low-scale seesaw scenario at the ILC****Speaker**

JOAQUIN MASIAS TEVES

12:30