

Session Program

28 November 2022 to 2 December 2022



**7th ComHEP: Colombian Meeting on High
Energy Physics**

Theory and Phenomenology

Monday 28 November

14:00

Theory and Phenomenology

Session | Location: | Convener: Oscar Zapata

14:00–14:45 **The Higgs Boson**

Speaker

Daniel De Florian

14:45–15:30 **The X17 anomaly: status and prospects**

Speaker

Enrico Nardi

15:30–16:00 **Break**

16:00–16:20 **Multicomponent scalar dark matter: recent developments**

Speaker

Oscar Zapata

16:20–16:40 **Decay constants and mass spectrum of pseudoscalars mesons**

Speaker

Ruben Hernando Criollo Estrella

16:40–17:00

$\mathbf{SU}(4)$ weak singlet leptoquark in $R_{K^{(*)}}$ flavor anomalies

Speaker

Oscar David Rosero Cárdenas

17:00–17:20

Scalar coupling evolution in a non-perturbative QCD resummation scheme

Speaker

Dr John David Gómez Aguirre

17:20–17:25 **Chern-Simons on the Null Plane**

Speaker

German Ramos

17:25–17:30 **Representaciones de Álgebras de Lie graduadas.**

Speakers

Juan Camilo Guzman Martinez, Mr Roberto Enrique Martinez Martinez

17:30–17:35 **Alternative 3-3-1 models: a comprehensive analysis**

Speaker

Yithsbey Giraldo Usuga

18:00