

Session Program

10 December 2025



IV IPARCOS Congress

Short contributions

Facultad de Ciencias Físicas, UCM, Aula Magna M1
Plaza de Ciencias 1, 28040 Madrid

Wednesday 10 December

09:30

Short contributions: ---

Session | Location: Facultad de Ciencias Físicas, UCM, Aula Magna M1, Plaza de Ciencias 1, 28040 Madrid

09:30–09:43 Detecting DM Decay into Gravitons: Theory and Forecasts

Speaker

Álvaro Cendal

09:43–09:56

The CARMENES search for exoplanets around M dwarfs: Discovery of two super-Earth candidates in the inner edge of the habitable zone.

Speaker

Javier Banegas Paredes

09:56–10:09 Cosmology and dark sector in TDiff models

Speaker

Diego Tessainer Bonet

10:09–10:22 Mechanisms that shape star formation: a study on metallicity and HI holes

Speaker

Guillermo Valé Arteaga

10:30

11:00

Short contributions: ---

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11:00–11:13 Wormholes: Science or fiction?

Speaker

Pablo Navarro Moreno

11:13–11:26 From photometry to spectroscopy: Chemical characterisation of M dwarfs

Speaker

Christian Duque

11:26–11:39

Graviton contribution to the muon anomalous magnetic moment in higher-derivative gravity

Speaker

Diego Voces Porteiro

11:39–11:52

A systematic search for spectral hardening in blazar flares with the Fermi-Large Area Telescope

Speaker

Adithiya Dinesh

11:52–12:05 Ghosts in Higher Derivative Quantum Field Theories

Speaker

Eric García Hemon

12:05–12:18

"The MEGARA/GTC Optical Perspective on the X-ray Ultra-Fast Outflow (UFO) in IRAS17020+4544"**Speaker**

Enrica Bellocchi

12:18–12:31

The trans-Planckian problem in cosmology**Speaker**

Christian Durán Romero

12:45

14:30

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14:30–14:43

Pruning for Deep Neural Network compression for low-latency event characterisation in imaging atmospheric Cherenkov telescopes**Speaker**

Dafne Martín Domínguez

14:43–14:56

Toward a better understanding of the nucleon's 3D structure through kinematic power corrections**Speaker**

Sara Piloñeta Álvarez

14:56–15:09

Deep-learning techniques in ground-based imaging gamma-ray observatories and the CTLearn package**Speaker**

Alexander Cerviño

15:09–15:22

On femtosopic correlations of light hadrons**Speaker**

Alejandro Canoa Monsalve

15:22–15:35

The complete trigger chain simulations of the new LST camera**Speaker**

Jorge Buces Sáez

15:35–15:48

Understanding large local CP violation in $B^\pm \rightarrow K^\pm \pi^+ \pi^-$ using dispersive methods**Speaker**

Alba Reyes Torrecilla

15:48–16:01

Quantum computing fragmentation functions**Speaker**

Juan José Gálvez Viruet

16:01

16:45

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16:45–16:58

The Central Trigger Processor Board (CTPB) for the CTAO LST Advanced Camera**Speaker**

María Molina Delicado

16:58–17:11 Relevance of on and off transitions in quantum pair production experiments**Speaker**

Álvaro Álvarez-Domínguez

17:11–17:24**Probing Extreme Particle Acceleration in Blazars: A New Population of EHSP Candidates and Their TeV Prospects****Speaker**

María Láinez

17:24–17:37 HEFT, SMEFT, and ALPs in Multi-Boson Production**Speaker**

Dr Alexandre Salas-Bernárdez

17:37–17:50 Probing Particle Acceleration in Low-Luminosity AGN: The Case of NGC 4278**Speaker**

Alberto Dominguez

17:50