



# Jornadas del ICTEA 2024

## lunes, 6 de mayo de 2024

### Sesión ICTEA: 1ª Sesión ICTEA - Aula Magna (13:45 - 15:00)

-Moderadores: Isidro González Caballero; Barbara Alvarez Gonzalez

| time  | [id] title  | presenter                |
|-------|---|--------------------------|
| 13:45 | [28] Triggering on muon showers in the Barrel Muon Trigger of the CMS experiment for the HL-LHC upgrades. | PRADO, Javier            |
| 14:00 | [24] Timing the Trigger: Clock Signal Distribution in the CMS Level 1 Trigger System                      | LEGUINA LÓPEZ, Pelayo    |
| 14:15 | [18] Structural design of the New Robotic Telescope (NRT)   | RODRÍGUEZ PEREIRA, César |
| 14:30 | [20] Scale-separation and supergravity  | MORITTU, Matteo          |

### Sesión ICTEA: 2ª Sesión ICTEA - Aula Magna (16:35 - 18:35)

-Moderadores: Adolfo Guarino

| time  | [id] title  | presenter                        |
|-------|---|----------------------------------|
| 16:35 | [27] Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at a CM energy of 13.6 TeV | SOTO RODRIGUEZ, Alejandro        |
| 16:50 | [35] Cosmic insights from galaxy clusters: Exploring magnification bias on sub-millimetre galaxies  | FERNÁNDEZ FERNÁNDEZ, Rebeca      |
| 17:05 | [17] Reconstructing turbulence-distorted wavefronts through laser-beam profiles   | BUENDÍA ROCA, Alejandro          |
| 17:20 | [21] Measurements of WZ properties in Run 3 with the CMS detector   | OBESO MENÉNDEZ, Miguel           |
| 17:35 | [26] Defect CFTs, Rigid Holography and C-Theorems   | CARREÑO BOLLA, Ignacio           |
| 17:50 | [14] Geomagnetic Compensation in Hyper-Kamiokande   | RODRÍGUEZ CABO, Sara             |
| 18:05 | [22] AdS <sub>2</sub> vacua from SL(2,R) T-duality  | CONTI, Andrea                    |
| 18:20 | [34] Breaking Ground on the Moon: Regolith as a Key Component in Lunar Thermal Energy Storage.  | Dr. MARQUÉS SIERRA, Antonio Luis |

# martes, 7 de mayo de 2024

## Sesión ICTEA - Aula Magna (10:50 - 12:05)

-Moderadores: Joaquín González-Nuevo

| time  | [id] title  | presenter               |
|-------|---|-------------------------|
| 10:50 | [39] INTREPID: INnovative TRiggEr techniques for beyond the standard model Physlcs Discovery at the LHC   | FOLGUERAS, Santiago     |
| 11:20 | [23] MC simulation of high energy physics using hardware accelerators   | VICO, Carlos            |
| 11:35 | [31] Búsqueda de exoplanetas en corrientes estelares extragalácticas  | DÍEZ ALONSO, Enrique    |
| 11:50 | [25] Measurement of the inclusive $t\bar{t}$ cross section in the lepton+jets channel and the combination with the dilepton channel at 5.02 TeV with 2017 data. | DEL RIEGO BADÁS, Javier |

## Sesión ICTEA: 3ª Sesión ICTEA - Aula Magna (12:05 - 14:55)

-Moderadores: Isidro González Caballero

| time  | [id] title   | presenter                   |
|-------|--|-----------------------------|
| 12:05 | [36] Artificial Intelligence at CERN   | Prof. VISCHIA, Pietro       |
| 12:25 | [19] Muon identification techniques in the CMS experiment  | AYLLÓN TORRESANO, Jorge     |
| 12:40 | [30] Redes Neuronales Convolucionales Unidimensionales (1D CNN) para la caracterización de exoplanetas en tránsito | IGLESIAS ÁLVAREZ, Santiago  |
| 12:55 | [15] Fractons, dipole symmetry breaking and gravity  | AFXONIDIS, Evangelos        |
| 13:10 | [29] Search for CP violation using $t\bar{t}H$ production  | RAMON ALVAREZ, Clara        |
| 13:25 | [32] Asteroid morphological modelling and YORP detection by light curve inversion method                           | RODRÍGUEZ RODRÍGUEZ, Javier |
| 13:40 | [33] Noise-free wavefront prediction for open-loop AO system based on recurrent models                             | PÉREZ, Saúl                 |
| 13:55 | [42] DiSCo-TNOs: Understanding Ices in the Solar System with the James Webb Space Telescope                        | PINILLA-ALONSO, Noemi       |