

CoCo 2o2o: Cosmology in Colombia

Wednesday, September 23, 2020

CoCo (9:00 AM - 10:30 AM)

| time | [id] title | presenter |
|----------|---------------------------------------------------------|---------------------------|
| 9:00 AM | [M0] Welcome | |
| 9:10 AM | [M6] Causality in Curved Spacetimes | DE RHAM, Claudia |
| 9:50 AM | [M5] Generalized SU(2) Proca theory reloaded and beyond | RODRIGUEZ GARCIA, Yeinzon |
| 10:10 AM | [M9] The Teleparallel version of Horndeski gravity | BAHAMONDE, Sebastian |

CoCo (10:50 AM - 12:10 PM)

| time | [id] title | presenter |
|----------|---------------------------------------------------------------------|---------------------------------------|
| 10:50 AM | [M8] Thermodynamics of $f(R)$ Theories | PERALTA GONZÁLEZ, César Daniel |
| 11:10 AM | [M0] Cosmic inflation in a tensor-vector-scalar theory of gravity | RODRÍGUEZ PEÑA, Cristhian |
| 11:30 AM | [M3] Construction of degenerate higher order scalar-tensor theories | Mr GRANADOS HERNÁNDEZ, Nestor Alberto |
| 11:50 AM | [M2] Generalized tracker Quintessence models for dark energy | ROY, Nandan |

CoCo (2:00 PM - 3:40 PM)

| time | [id] title | presenter |
|---------|-------------------------------------------------------------------------------------|-------------------------------|
| 2:00 PM | [M7] Topological mass generation and generalized 2-forms | BELTRAN, Juan Pablo |
| 2:20 PM | [M6] Dark Energy from Coupled p -forms | GUARNIZO, Alejandro |
| 2:40 PM | [M1] Dynamical analysis of cosmological models with non-Abelian gauge vector fields | VALENZUELA-TOLEDO, Cesar A. |
| 3:00 PM | [M0] Anisotropic Einstein Yang-Mills Higgs Dark Energy | ORJUELA-QUINTANA, JOHN BAYRON |
| 3:20 PM | [M3] No slow-roll inflation à la Generalized Chaplygin Gas in General Relativity | GALLEGO CADAVID, ALEXANDER |

CoCo (4:00 PM - 5:40 PM)

| time | [id] title | presenter |
|---------|-----------------------------------------------------------------------------|----------------------------------|
| 4:00 PM | [M] New cosmological constraints to find plausible dark energy candidates | Dr GARCÍA, Luz Ángela |
| 4:20 PM | [M] Constraining gravitational parity violation | Mrs CÁRDENAS AVENDAÑO, Alejandro |
| 4:40 PM | [M9] Towards the one-loop galaxy bispectrum in the weak field approximation | CASTIBLANCO, Lina |
| 5:00 PM | [M4] Coupled Multi-Proca Vector Dark Energy | Dr L. GABRIEL, Gómez |
| 5:20 PM | [M9] Anisotropic solid dark energy | MOTOA MANZANO, Josué |

Thursday, September 24, 2020

CoCo (9:00 AM - 10:40 AM)

| time | [id] title | presenter |
|----------|-------------------------------------------------------------------------------------------------------------|---------------------------------|
| 9:00 AM | [M5] Constraints on Reheating to SM Particles due to Large Effective Higgs Boson Mass | Dr VISINELLI, Luca |
| 9:20 AM | [M2] The CMB as a detector of high-frequency gravitational waves | Dr GARCIA CELY, Camilo |
| 9:40 AM | [M7] Effective Theory of Freeze-in Dark Matter | BARMAN, Basabendu |
| 10:00 AM | [M] UV Freeze-in in Starobinsky Inflation | BERNAL, Nicolás |
| 10:20 AM | [M] Ultraviolet completion and predictivity from minimal parameterizations of Beyond-Standard-Model physics | NIETO GUERRERO, Carlos Mauricio |

CoCo (11:00 AM - 12:00 PM)

| time | [id] title | presenter |
|----------|----------------------------------------------------------------------|----------------------|
| 11:00 AM | [M] Observable gravitational waves in minimal scotogenic model | DASGUPTA, Arnab |
| 11:20 AM | [M] Creating matter antimatter asymmetry with non-standard cosmology | Mr MAHANTA, Devabrat |
| 11:40 AM | [M] Lepto-Axiogenesis | FERNANDEZ, Nicolas |

CoCo (2:00 PM - 3:40 PM)

| time | [id] title | presenter |
|---------|--------------------------------------------------------------------------------------------|-------------------------------------|
| 2:00 PM | [M] Observing Left-Right Symmetry in the Cosmic Microwave Background | NANDA, Dibyendu |
| 2:20 PM | [M] Cosmological evolution of Scalar Field Dark Matter with an Axion-like potential | Dr LINARES CEDEÑO, Francisco Xavier |
| 2:40 PM | [M] Erasure of Topological Defects | VALBUENA BERMUDEZ, Juan Sebastian |
| 3:00 PM | [M] Gravitational Production of Superheavy Dark Matter and Cosmological Signatures | LI, LINGFENG |
| 3:20 PM | [M] Dark Energy in Five Dimensional Spherically Symmetric Universe with Future Singularity | Mr SINGH, Pheiroijam Suranjoy |

CoCo (4:00 PM - 5:03 PM)

| time | [id] title | presenter |
|---------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|
| 4:00 PM | [M] CMB Temperature Spectrum considering massive neutrinos in Λ CDM | Mr CALDERON CORDOVA, CRISTHIAN |
| 4:07 PM | [M] The cosmic web through the lens of graph entropy | GARCÍA-ALVARADO, María Valentina |
| 4:14 PM | [M] Superclusters from velocity divergence fields | PEÑARANDA RIVERA, jose david Dr FORERO ROMERO, Jaime Ernesto |
| 4:21 PM | [M] Relativistic stars in the generalized Proca theory | JAIMES ESPÍNDOLA, William |

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|------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 4:28 P[15] | Kantowski-Sachs Cosmological Model with Chaplygin Gas | RODRIGUES, Marcela |
| 4:35 P[16] | Leptophilic Z' model: Hubble tension and CMB constraints | ARCILA MALDONADO, Juan Pablo |
| 4:42 P[17] | Prueba Geométrica de Campos Trackers en Cosmología | MORENO, alexander Mr MORENO, alexander |
| 4:49 P[19] | Acotando el valor de la constante cosmológica con vacíos en la distribución espacial de galaxias | CORDOBA CAYCEDO, Carlos Miguel |
| 4:56 P[20] | Midiendo la complejidad de la red cósmica | TORRES GUARIN, Diego Dr FORERO ROMERO, Jaime |

Friday, September 25, 2020

CoCo (9:00 AM - 10:40 AM)

| time | [id] title | presenter |
|----------|---------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 9:00 AM | [M3] Baryogenesis in the Standard Model EFT with dim 6 terms | LOSADA, Martha Alice |
| 9:20 AM | [M5] Mark weighted correlation functions to constrain cosmological parameters | FORERO-ROMERO, Jaime |
| 9:40 AM | [M2] From the β -skeleton to the Cosmic Web elements | Mr SUÁREZ-PÉREZ, John F. |
| 10:00 AM | [M0] Galaxy density-independent selection of Cosmic Void clustering sample and improvement of BAO scale measurement | FORERO SANCHEZ, Daniel Felipe |
| 10:20 AM | [M1] Measuring Galaxy Assembly Bias in IllustrisTNG | CAMARGO CAMARGO, Yeimy Dallana |

CoCo (11:00 AM - 12:20 PM)

| time | [id] title | presenter |
|----------|-----------------------------------------------------------------------------------------------------------|----------------------------|
| 11:00 AM | [M4] Mediciones esperadas de la función de correlación de dos puntos en la primera fase de DESI | SIERRA PORTA, David |
| 11:20 AM | [M7] Optimization of Mapper of the IGM Spin Temperature (MIST) Antenna Parameters | RESTREPO, Óscar |
| 11:40 AM | [M8] MIA pseudo-spectral for the numerical treatment of inhomogeneous and anisotropic cosmological models | Dr ESCOBAR DIAZ, Leon |
| 12:00 PM | [P0] EXTENDED BODY DYNAMICS IN GENERAL RELATIVITY | Mrs GONZÁLEZ CAMPO, Andrea |

CoCo (2:00 PM - 3:30 PM)

| time | [id] title | presenter |
|---------|---------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 2:00 PM | [M5] Cosmic dynamo equation under cosmological perturbations at first order | BRAVO CÁRDENAS, Juan Felipe |
| 2:20 PM | [M6] Reconstruction of mass profiles in disc-like galaxies based on its properties of lensing and rotational curves | Ms LÓPEZ TRILLERAS, Itamar Alfonso |
| 2:40 PM | [M2] The Matter Spectrum at Second Order | FERNANDO FONSECA MORENO, Diego |
| 3:00 PM | [M9] Forecasts on the speed of gravitational waves at high z | Mr BONILLA RIVERA, Alexander |
| 3:20 PM | [M1] Closure | |

CoCo (3:50 PM - 5:50 PM)

| time | [id] title | presenter |
|---------|----------------------------------|------------|
| 3:50 PM | [M4] Interacciones Fundamentales | SURATÓMICA |