

| Chair person   | Hora inicio  | Hora término | Expositor(a)                | Título                                                                                                                                 |
|----------------|--------------|--------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                | <b>9:00</b>  | <b>9:20</b>  | <b>Registro</b>             | Registro                                                                                                                               |
|                | <b>9:30</b>  | <b>9:45</b>  | <b>Directores doctorado</b> | Bienvenida a Panoramas PCV/UTFSM                                                                                                       |
| Chair Person 1 | 9:45         | 10:00        | Bastián Castorene           | Spin-1/2 vs. Spin-1: A Quantum Thermodynamic Study of Anisotropic XXX Heisenberg Models                                                |
|                | 10:00        | 10:15        | Evelyn Puebla               | Efecto de las fuerzas de marea en sistemas binarios WD+AFGK a partir de observaciones realizadas por Gaia y TESS                       |
|                | 10:15        | 10:30        | Jefferson Vaca              | Sobre la reducción dimensional en espacios afines                                                                                      |
|                | 10:30        | 10:45        | Sarai Zapata                | Generación de campo magnético en enanas blancas: comparando predicciones de modelos con observaciones de doble enanas blancas cercanas |
|                | 10:45        | 11:00        | Iván Zemlyakov              | Exclusive photoproduction of $\eta\gamma$ pairs in the dipole picture                                                                  |
|                | <b>11:00</b> | <b>11:30</b> | <b>Pausa de café</b>        |                                                                                                                                        |
| Chair Person 2 | 11:30        | 11:45        | Tomás Fuentes               | Characterization of BreakBRD-type galaxies sample                                                                                      |
|                | 11:45        | 12:00        | Raúl Baier                  | Cosmic Filaments and Galaxy Cluster Accretion: X-ray and Optical Evidence from CHANCES superclusters                                   |
|                | 12:00        | 12:15        | Yeslaine Hernández          | Estudios de hadronización en medio nuclear y producción de pares de Higgs decayendo a $b\bar{b}\tau+\text{had}\tau\text{-had}$         |
|                | 12:15        | 12:30        | Michel Aguilera             | Dipolar Q-Clock Otto Engine: Long-Range Interactions and Thermodynamic Performance                                                     |
|                | 12:30        | 12:45        | Xaviera Julio               | The Effect of Irradiation on Period Bouncers                                                                                           |
|                | 12:45        | 13:00        | Sofía Pinto                 | Estados ligados en el continuo protegidos por simetría: Estudio Teórico y Experimental                                                 |
|                | <b>13:00</b> | <b>14:30</b> | <b>ALMUERZO</b>             |                                                                                                                                        |
| Chair Person 3 | 14:30        | 14:45        | Patricia Martínez           | Análisis de la estructura electrónica de materiales bidimensionales mediante espectroscopía de fotoemisión inversa                     |
|                | 14:45        | 15:00        | Juan Pablo Esparza          | Exceptional magic angles in non-Hermitian twisted bilayer graphene                                                                     |
|                | 15:00        | 15:15        | Joaquín Barraza             | A unified theory for magnetic braking in close binary systems                                                                          |
|                | 15:15        | 15:30        | Rafael Riveros              | Self-induced refraction in localized driven drifting patterns                                                                          |
|                | <b>15:30</b> | <b>16:00</b> | <b>Pausa de café</b>        |                                                                                                                                        |
| Chair Person 4 | 16:00        | 16:15        | Nicolás Pinochet            | Entanglement and Causal Wedge Transitions in Rotating Spacetimes                                                                       |
|                | 16:15        | 16:30        | Miguel Solís                | Antisite-Defect Impact on Ferroelectricity in Shifted h-BN Bilayers                                                                    |
|                | 16:30        | 16:45        | Bastián Grez                | Estados de Majorana y sus aplicaciones en Computación Cuántica                                                                         |
|                | 16:45        | 17:00        | Felipe Brevis               | Exploring the connection of flat and tubular magnetic shells in magnonics                                                              |

| Chair person   | Hora inicio  | Hora término | Expositor(a)                  | Título                                                                                                               |
|----------------|--------------|--------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
|                | 9:30         | 9:45         | Director Departamento (UTFSM) | Bienvenida a Panoramas                                                                                               |
| Chair Person 1 | 9:45         | 10:00        | Director del Programa UTFSM   | Palabras de Bienvenidas                                                                                              |
|                | 10:00        | 10:15        | Pablo Silva                   | Glóbulos rojos como marcadores mecánicos en procesos de bioimpresión por extrusión                                   |
|                | 10:15        | 10:30        | Gustavo Concha                | Constraining uber gravity with recent observations and studying the H0 problem                                       |
|                | 10:30        | 10:45        | Javier Pillado                | Dynamics and Control of Particle Transport in a Vibrating Ratchet System                                             |
|                | 10:45        | 11:00        | José Garrido                  | Homotopy approach for scattering amplitude for running QCD coupling                                                  |
|                | <b>11:00</b> | <b>11:30</b> | <b>Pausa de café</b>          |                                                                                                                      |
| Chair Person 2 | 11:30        | 11:45        | Ignacio Quiroz                | Observational measurement of Halo Spin Bias via Spin-Orbit Coherence                                                 |
|                | 11:45        | 12:00        | Fabián Hernández              | Reinterpretations of long-lived particles searches at LHC and future colliders                                       |
|                | 12:00        | 12:15        | Nicolás Pérez                 | Fenomenología de una teoría $SU(3)_c \times SU(3)_L \times U(1)_X$ con simetría modular A4 y seesaw lineal radiativo |
|                | 12:15        | 12:30        | Joaquín Meza                  | Discovery of a new accreting white dwarf, could be a long period nova-like?                                          |
|                | 12:30        | 13:00        | Matías Toledo                 | The CP problem                                                                                                       |
| Chair Person 3 | <b>13:00</b> | <b>14:30</b> | <b>Almuerzo</b>               |                                                                                                                      |
|                | 14:30        | 14:45        | Alejandro Varas               | Gravitational Memory effect on a freely falling test Dirac fermion                                                   |
|                | 14:45        | 15:00        | Alma González                 | Caracterización de BaTiO <sub>3</sub> como un cosechador de energía mediante cálculos DFT                            |
|                | 15:00        | 15:15        | Salomón Romero                | Understanding Holography as Renormalization Group Flow                                                               |
|                | 15:15        | 15:30        | Martín Molina                 | Generalized conformal quantum mechanics as an ideal observer in two-dimensional gravity                              |
|                | <b>15:30</b> | <b>16:00</b> | <b>Pausa de café</b>          |                                                                                                                      |
| Chair Person 4 | 16:00        | 16:15        | Lukas Dumond                  | Evaluación del "Maximal Cut" para diagramas de Feynman de 1-loop multiescala. Una nueva formulación.                 |
|                | 16:15        | 16:30        | Kevin Gonzalez                | Bound states in the continuum in a flat-band system                                                                  |
|                | 16:30        | 16:45        | Alexis Legón                  | Enrutamiento cuántico de fotones mediante átomos gigantes                                                            |
|                | 16:45        | 17:00        | Milan Ungerer                 | Study of Hadronization process in different nuclear media with CLAS12 detector                                       |
|                | 17:00        | 17:15        | Sanber Vizcaya                | Slide and twist: manipulating polarization in multilayer hexagonal boron–nitride                                     |
| <b>17:15</b>   |              |              | <b>CIERRE</b>                 |                                                                                                                      |