

PROGRAM SCHEDULE 17TH LATIN AMERICAN WORKSHOP IN PLASMA PHYSICS LAWPP CHILE 2025

		Monday 20	Tuesday 21	Wednesday 22	Thrusday 23
9:00	9:10				
9:10	9:20	Register	IN-M1 (Morales)	IN-W1	IN-J1 (Delahaye)
9:20	9:30		111-1-11 (1-101ates)	(Delgado-Aparicio)	iiv-ji (Detailaye)
9:30	9:40	†			
9:40	9:50	· ~			
9:50	10:00		Coffee Break	Coffee Break	Coffee Break
10:00	10:10	†			
10:10	10:20	IN-I 1 (Allain)		10.1.1.12	
10:20	10:30		IN-M2 (Chittenden)	IN-W2	IN-J2 (Gupta)
10:30	10:40		, ,	(Paganini Canal)	, , ,
10:40	10:50				
10:50	11:00		OR-AM-M1	OR-AM-W1	OR-AM-J1
11:00	11:10				
11:10 11:20	11:20 11:30				OR-AM-J2
11:20	11:30	IN-L2 (Diallo)			
11:40	11:50				OR-AM-J3
11:50	12:00		Poster Session 1	Poster Session 2	
12:00	12:10	()R-AM-I 1			OR-AM-J4
12:10	12:20				
12:20	12:30	H ()R-AM-12			OR-AM-J5
12:30	12:40				
12:40	12:50				
12:50	13:00				
13:00	13:10				
13:10	13:20				

13:20	13:30	Lunch	Lunch	Lunch	Lunch
13:30	13:40				
13:40	13:50				
13:50	14:00				
14:00	14:10				
14:10	14:20				
14:20	14:30			OR-PM-W2	OR-PM-J6
14:30	14:40		IN-M3 (Niembro)	01(1111)	ON 11130
14:40	14:50		ii (i i (i i i i i i i i i i i i i i i	OR-PM-W3	OR-PM-J7
14:50	15:00				GITT1137
15:00	15:10	OR-PM-L3	OR-PM-M2	OR-PM-W4	OR-PM-J8
15:10	15:20	01111120	51111112		GH11136
15:20	15:30	OR-PM-L4	OR-PM-M3	OR-PM-W5	OR-PM-J9
15:30	15:40				
15:40	15:50	OR-PM-L5	OR-PM-M4	OR-PM-W6	OR-PM-J10
15:50	16:00		-		
16:00	16:10				OR-PM-J11
16:10	16:20		Coffee Break	Coffee Break	
16:20	16:30				Closure
16:30	16:40	OR-PM-L6	OR-PM-M5	OR-PM-W7	3.334.0
16:40	16:50	51111120	51111110	3.1.1.1	
16:50	17:00	OR-PM-L7	OR-PM-M6	OR-PM-W8	
17:00	17:10	3.1.1.2,	5	5	

Meeting - CLAF: Nuclear Fusion Unit

OR-PM-M7

20:00 ...

17:10

17:20

17:20

17:30

OR-PM-L8

DINNER
La Cava Restaurant
(Centro de Extension UC)

OR-PM-W9

SCIENTIFIC PROGRAM 17TH LATIN AMERICAN WORKSHOP IN PLASMA PHYSICS LAWPP CHILE 2025

MONDA	AY 20	
IN-L1	Jean Paul Allain	Building bridges: A vision for Fusion Energy and Plasma Science in the U.S. Department of Energy
IN-L2	Ahmed Diallo	Advancing First Wall Materials for Sustainable Fusion Power Systems
OR-AM-	-L1 Reinaldo R. Rosa	Machine Learning-Based Disruption Diagnosis: From Solar Plasma to Tokamaks
OR-AM-	-L2 Arturo Dominguez	Public engagement and workforce development activities at the Princeton Plasma Physics Laboratory
IN-L3	Cristiane Koga ito + Fellype do Nas	cimento Exploring the medical applications of cold atmospheric plasma jets and plasma activated liquids
OR-PM-	-L3 Aníbal Concha-Meyer	Atmospheric cold plasma treatments to ensure safety and quality of salmon and cheese
OR-PM-	-L4 Diego Morais da Silva	Optimizing E. Coli inhibition with cold atmospheric plasma jet delivery protocol
OR-PM-	-L5	
OR-PM-	-L6 Felipe A. Asenjo	Induced supersymmetric structure of electromagnetic plasma waves by dispersive gravitational waves
OR-PM-	-L7 Roberto E. Navarro	Multiple BGK-like Structures by Electro-Acoustic Waves in Vlasov-Poisson Plasmas
OR-PM-	-L8 Maricarmen A. Winkler	Accelerating solutions of the Korteweg-de Vries equation

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Special Meeting Centro Latinoamericano de Fisica: Unidad de Fusion Nuclear

IN-M1	Laura Morales	Waiting time for forecasting solar flares with avalanche & MHD models
IN-M2	Jeremy Chittenden	Magnetic Reconnection in Radiatively Cooled, Wire Array Z-pinch Plasmas
OR-AM-M1	Felipe Veloso	Interaction between plasma outflow from a conical wire array with a background laser-produced plasma
IN-M3	Tatiana Niembro	The color wind complexity during the Darker Color Drobe or
		The solar wind complexity during the Parker Solar Probe era
OR-PM-M2	Vicente Valenzuela-Villaseca	Exploring our magnetized universe on the world's most energic lasers: magnetic reconnection, collisionless shocks, and accretion disks
OR-PM-M3	Tobias Dornheim	Towards highly accurate diagnostics of extreme states of matter with x-ray Thomson scattering
OR-PM-M4	Julio Valenzuela	Advancing Plasma Diagnostics at PUC: Recent Results from Thomson Scattering
OR-PM-M5	José Alejandro Franco Altamirano	Calorimetry of keV to MeV X-rays from GeV plasma-based wakefield accelerators
OR-PM-M6	Miranda, Rodrigo A.	The role of coherent structures in intermittent plasma turbulence
OR-PM-M7	Joaquín Díaz Peña	Effects of E-region plasma turbulence on a 3D simulation of an extreme SAID/STEVE

WEDNESDAY 22

OR-AM-W3

IN-W1 Luis Felipe Delgado-Aparicio Energy-sensitive X-ray Cameras for Thermal and Non-Thermal Plasmas: A 12-Year Journey Towards Real-Time Solutions
IN-W2 Gustavo Paganini Canal The current status of the upgrade of TCABR

OR-AM-W1 José Roberto Fernandes Junior Modeling separatrix splitting and magnetic footprints in TCABR

OR-AM-W2 Iberê L. Caldas (Lucas N. A. Amaral) Shearless Bifurcations In Tokamaks

Cesar Clauser Modeling of Vertical Displacement Events in Alcator C-Mod and SPARC

OR-AM-W4 Maia Brodiano Study of 1/f Spectrum in Pristine Solar Wind Turbulence: Observation data vs numerical simulations

OR-AM-W5 Alejandro Lara Interaction of energetic particles and large scale magnetic fields in the interplanetary medium

OR-AM-W6 Victor A. Pinto Analysis of Solar Wind Properties Associated With Relativistic Electron Enhancement Events at Geostationary Orbit

OR-PM-W7 Rodrigo A. López The role of plasma instabilities in collisionless plasmas
OR-PM-W8 Maximilian P. Boehme Evidence of free-bound transitions in Warm Dense Matter

OR-PM-W9 Ishay Pomerantz Undepleted Direct Laser Acceleration

THRUSDAY 23

Franck Delayahe

IN-J1

IN-J2	Suryakant Gupta	ESD and its detrimental effects on the spacecraft charging and arc mitigation techniques
OR-AM-J1	Nicolas Vargas	Overview: Diamond Like Carbon (DLC) ablators for fusion energy
OR-AM-J2	Noely Zully Calderon Ipanaque	Analysis and simulations of cold plasmas generated by Magnetron Sputtering
OR-AM-J3	Biswajit Bora	Supersonic Thermal Plasma Expansion Process for Nanoparticle Production: Synthesis of Lithium-Based Nanoparticles
OR-AM-J4	Leopoldo Soto	Nuclear fusion research using a repetitive tabletop plasma focus of 2 Joules: Materials under extreme radiations conditions

Opacity for Astrophysics: Theory & Experiments

OR-AM-J5

OR-PM-J6	Pablo S Moya	First Principles Description of the Solar Wind Expansion Using the Expanding Box Model
OR-PM-J7	Meyer Merino	Long-term trends at the geomagnetic equator: New results from Jicamarca Radio Observatory
OR-PM-J8	Marina Stepanova	Role of the MHD turbulence in the stability and transport of plasma in the magnetosphere of the Earth
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OR-PM-J9 Víctor Muñoz Community Structure Of Earth's Magnetic Field Measurements

OR-PM-J10 Sergio Davis Kappa distributions in the language of Superstatistics

OR-PM-J11 Gonzalo Avaria Ultra-High-Frequency Characterization of a Plasma Focus Device: Is There Something Hidden in the Complexity of the Signal?

Poster Session 1 - Tuesday

PO-M-01	Lautaro Alvear	Activity and Cumulative Entropy in MHD Simulations of the GOY Shell Model with Different Types of Forcing
PO-M-02	Macarena Cádiz	Using Complex Networks to Characterize Light Curves of Blazars
PO-M-03	Manuel Bravo	Simulations of the dynamics of Equatorial Ionization Anomaly crests during Solar Eclipses
PO-M-04	Marco Antonio Ridenti	A Generalization of Bohm Velocity for Multicomponent Electronegative Plasmas
PO-M-05	Guilherme T. Irumé	Langmuir Turbulence Generated by Electron Beams of Arbitrary Intensity
PO-M-06	Tristan Bachmann	Laboratory Exploration of Early Universe Magnetogenesis with High Repetition Rate Experiments and FLASH Simulations
PO-M-07	J.P. Velásquez	Simulating Electromagnetic Waves in Low Altitude Space Plasmas: Applications to solar flares, neutral waves, and tomography
PO-M-08	lgor Golovkin	Consistent Treatment of Dense Plasma Effects on Atomic Structures, Collisions, and Spectral Signatures
PO-M-09	Viktoriya Golovkina	Radiation-Hydrodynamics code HELIOS-CR: improved models for dense plasma effects and IFE simulations
PO-M-10	Luan Bottin De Toni	Influence of plasma particle flow on dust grain charging and on particle number density
PO-M-11	Gabriel Medel	Parametric Decays of Electromagnetic Waves in Electron-Positron Nonextensive Plasmas
PO-M-12	Komal	Investigating The Effect Of Impurity Seeding On The Magnetic And Electrostatic Edge Fluctuations In ADITYA-U Tokamak
PO-M-13	Ricardo de Ávila Mesquita	Simulation of Emissivity Profiles in the TCABR Tokamak
PO-M-14	Lucas Nedeff Assub Amaral	Hamiltonian Map for a Double-Null Divertor Tokamak
PO-M-15	Felipe Paes Bekman	Development of an Active Cooling System for ELMs Control Coils of the TCABR

PO-M-16	Germán Vogel	Estudio de Impurezas en el Tokamak GOLEM mediante Diagnósticos Espectroscópicos
PO-M-17	Lady Daiane Pereira Leite	Antibiofilm Properties of Poly(Methyl Methacrylate) Coated with ${\rm Al_2O_3}$ by Atomic Layer Deposition
PO-M-18	PEDRO WILLIAM PAIVA MOREIRA JUNIOR	Influence of Thermal Pre-Treatment of Sewage Sludge for Plasma Processing in a DC-Transferred Arc Reactor
PO-M-19	Rafael Resende Lucas	Morphological and chemical characterization of the AA2024-T3 (Alclad) alloy treated by Plasma Electrolytic Oxidation (PEO)
PO-M-20	Ivan Morales	Implementation of the Faraday Rotation Technique for Current Measurement in Low-Energy Plasma Focus Devices
PO-M-21	Homero Fonseca Santiago Maciel	Characterization of Plasma-Sprayed EBCs Under Controlled Thermal Conditions: Insights into Stability and Performance
PO-M-22	Claudio Andrés Téllez Zepeda	Atmospheric Argon Plasma-Induced Defects in Monoclinic α -Bi $_2$ O $_3$: Insights from DFT and Vibrational/Electronic Spectroscopic Analysis
PO-M-23	Gonzalo Avaria	Measurements of the radial phase magnetic field on the MPG discharge with Zeeman Splitting spectroscopy
PO-M-24	Cristian Pavez	Measuring Plasma Parameters in a Small Plasma Focus Using Collective Thomson Scattering
PO-M-25	Abiam Tamburrini	Unifying Kappa Distribution Models for Non-Equilibrium Space Plasmas: A Superstatistical Approach Based on Moments
PO-M-26	Camilo Vásquez-Wilson	Plasma Focus-Based Pulsed Plasma Thruster for Nanosatellites: Design, Characterization, and Thrust Measurement System
PO-M-27	Valentina D. Calderón	Characterizing the Velocity Distribution of a Turbulent Plasma through the study of a Langevin-type System and its relationship with Kappa Distributions
PO-M-28	Daniel A. S. Mendes	Fine-Grained Comparative Classification of Equivalent MHD and HD Turbulence Patterns in an Entropic Informational Parameter Space
PO-M-28 PO-M-29	Daniel A. S. Mendes Alejandro Zamorano	·
		Parameter Space

PO-M-32	Yulissa Espitia	Radial Response to Geomagnetic Disturbances of Relativistic Electrons in the Outer Radiation Belt as a Function of Their Energy
PO-M-33	Sebastián Echeverría-Veas	Quantifying the expanding and cooling effects into the CGL evolution through the Expanding Box Model.
PO-M-34	Josefina Muñoz	Study of collisions and perturbations in laser produced annular plasma
PO-M-35	Isaac Gallegos	Medición de Temperatura Ionica real de un plama tipo Gas-puff mediante Espectroscopía de Rayos-X

Poster Session 2 -Wednesday

PO-W-01	Nathan Fabeliano Altaras	Modeling the attenuation of RMP fields in TCABR plasmas due to eddy currents induced in the vacuum vessel
PO-W-02	Fernando A. F. Albuquerque	Development of a Multi-Pass Cavity Optical System for Diagnosing Neutral Particle Density and Electronic Parameters in the TCABR Tokamak.
PO-W-03	JC Sánchez	Numerical study of the magnetohydrodynamic equilibrium of a fusion plasma confined in a tokamak.
PO-W-04	Ricardo Antonio De Levante Rodriguez	Investigation of HHFW Edge Plasma Interactions in NSTX-U using realistic density profiles in a 2D and 3D geometry.
PO-W-05	Júlia Rodriguez Richieri	Separatrix splitting and magnetic footprints in TCABR
PO-W-06	B. B. Leal	Isochronous islands bifurcations driven by resonant magnetic perturbations in tokamaks
PO-W-07	Luan Bottin De Toni	Kinetic effects of dust size distribution on Alfvén waves in magnetized space plasmas
PO-W-08	M. V. Coello	Radial evolution of plasma parameters in the Solar Wind using measurements from Parker Solar Probe
PO-W-09	Maximiliano Correa Gazmuri	Characterizing the transmission of electromagnetic waves in a plasma with kappa distribution
PO-W-10	Martín Quijada	Weakly Non-Linear Interaction Between Electromagnetic and Electrostatic Spectra in a Solar Wind-Type Plasma
PO-W-11	Marco Ribeiro	Turbulent plasma simulation using PIC to study the Thomson scattering spectrum
PO-W-12	Daniel Hermosilla Pizarro	Magnetic Spectra Comparison for Kappa-distributed Whistler Electron Fluctuations
PO-W-13	Astor Sandoval	Particle Acceleration in the magnetorotational instability
PO-W-14	Nicolás Villarroel Sepúlveda	Heat flux battery processes near black hole event horizons

PO-W-15	Martín Astete	Synchrotron radiation from mirror instability in collissionless plasmas using PIC simulations
PO-W-16	Sebastián Saldivia	The effect of plasma expansion on the dispersion properties of MHD waves.
PO-W-17	Adetayo V. Eyelade	Characterizing Solar Wind Electron Velocity Distributions: Analysis of the Core-Strahlo (CS) Model Using Wind-SWE-VEIS Observations
PO-W-18	Javier Fuentes	Characterization of the dynamics of a current sheet in a coaxial plasma accelerator: Simulations and experiments
PO-W-19	Noala Vicensoto Moreira Milhan	Antifungal property of Cold atmospheric pressure plasma associated with Vitamin C in a murine model of oral candidiasis
PO-W-20	Nilton F. Azevedo Neto	Enhanced Production of Reactive Oxygen and Nitrogen Species in Plasma-Activated Saline using a Serially Associated Hybrid Plasma Discharge System
PO-W-21	Jose Carlos Palomares Amado	ELECTRICAL CHARACTERIZATION OF A PLANAR DOUBLE DIELECTRIC BARRIER DISCHARGE IN A MESH-TYPE CONFIGURATION AS WELL AS WITH DIFFERENT ELECTRODE GEOMETRIES.
PO-W-22	José Moreno	Optimization of pulsed X-ray emission from a 2kJ Plasma Focus for application in biological areas
PO-W-23	Maximiliano Benitez	Design and construction of a corona discharge reactor for wastewater treatment.
PO-W-24	Michaela Shiotani Marcondes	Cold Plasma Treatment: Efficacy and Selectivity in Cancerous (B16F10) and Healthy Cells (L929)
PO-W-25	Florencia Díaz	Electric field effects in the formation of patterns at plasma-liquid interface
PO-W-26	Fellype do Nascimento	A low-cost plasma source aimed for medical applications using Ar as the working gas
PO-W-27	Brayan Ponciano Leyva	Plasma electrolytic oxidation for coating formation
PO-W-28	Felipe Miranda	The Influence of Temperature Process on RONS Formation in Plasma Activated Water Produced by Coaxial DBD Reactor.
PO-W-29	Christian Mendoza Benitez	Degradation of red and yellow azo dyes in an aqueous medium by corona discharge
PO-W-30	Alexsandra Cordero	SURFACE MODIFICATION OF POLYPROPYLENE SURGICAL POLYMER USING ARGON PLASMA AND CHITOSAN COATING FOR ANTIMICROBIAL SUTURES
PO-W-31	Azul Gabriela González Hernández	Degradación de Metamizol sódico con plasma a presión atmosférica

PO-W-32	José Leonardo Ferreira	Hall Electric Thruster with RF Cathode for Small Satellites
PO-W-33	José Leonardo Ferreira	SPACE WEATHER A PROJECT TO EXPERIMENTALY SIMULATE NEAR EARTH SPACE PLASMAS
PO-W-34	Ana P. Aragon Rodriguez	Spectral simulation of plasma bubbles: Sensitivity analysis of drivers
PO-W-35	Consuelo Mimica	Diseño Preliminar de Plataforma Experimental para el Estudio de Turbulencia en Plasmas de Laboratorio
PO-W-36	Pelayo Phillips	Generation of magnetized plasmas in a Gas-puff Z-pinch configuration