



**Sistema Integral de Información Académica**  
**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**FERNANDO GARFIAS MACEDO**

## Datos Generales

**Nombre:** FERNANDO GARFIAS MACEDO

**Máximo nivel de estudios:** MAESTRÍA

**Antigüedad académica en la UNAM:** 36 años

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## Nombramientos

**Vigente:** TECNICO ACADEMICO TITULAR B TC Definitivo  
Instituto de Astronomía  
Desde 01-03-2020

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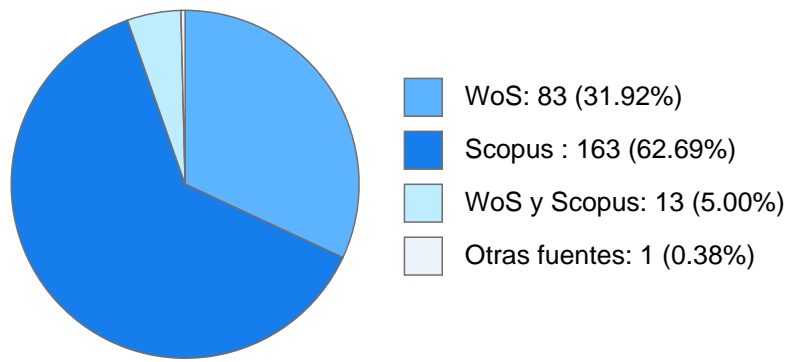
## Estímulos, programas, premios y reconocimientos

PRIDE C - 2024

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### DOCUMENTOS EN REVISTAS

#### Histórico de Documentos



#	Título	Autores	Revista	Año
1	Absence of TeV halos around millisecond pulsars	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	PHYSICAL REVIEW D	2025
2	Extended TeV Halos May Commonly Exist around Middle-Aged Pulsars	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	PHYSICAL REVIEW LETTERS	2025
3	HAWC, VERITAS, Fermi-LAT, and XMM-Newton Follow-up Observations of the Unidentified Ultra-high-energy Gamma-Ray Source LHAASO J2108+5157	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL	2025
4	Search for seasonal variations of the horizontal muon rate with the HAWC observatory	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2025

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5	Temporal and Spectral Study of Markarian 421's Activity States Using HAWC Data	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2025
6	Longtime Monitoring of TeV Radio Galaxies with HAWC	JOSE RUBEN ALFARO MOLINA ERICK ALEJANDRO RANGEL ANITA DANIEL OMAR AVILA ROJAS et al.	ASTROPHYSICAL JOURNAL	2025
7	Probing the mass composition of TeV cosmic rays with HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2025
8	High-altitude characterization of the Hunga pressure wave with cosmic rays by the HAWC observatory	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ADVANCES IN SPACE RESEARCH	2024
9	Exploring the Coronal Magnetic Field with Galactic Cosmic Rays: The Sun Shadow Observed by HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL	2024
10	TeV Analysis of a Source-rich Region with the HAWC Observatory: Is HESS J1809-193 a Potential Hadronic PeVatron?	RUBEN ALFARO QUIZA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL	2024
11	Performance of the HAWC Observatory and TeV Gamma-Ray Measurements of the Crab Nebula with Improved Extensive Air Shower Reconstruction Algorithms	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL	2024
12	Observation of the Galactic Center PeVatron beyond 100 TeV with HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL LETTERS	2024
13	Ultra-high-energy gamma-ray bubble around microquasar V4641 Sgr	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	Nature	2024
14	Multiwavelength Investigation of $\gamma$ -Ray Source MGRO J1908+06 Emission Using Fermi-LAT, VERITAS and HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL	2024

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15	Testing the molecular cloud paradigm for ultra-high-energy gamma ray emission from the direction of SNR G106.3+2.7	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTRONOMY & ASTROPHYSICS	2024
16	Precise Measurements of TeV Halos around Geminga and Monogem Pulsars with HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL	2024
17	Identifying Short Gamma-Ray Bursts with potential delayed TeV Afterglows as possible counterparts to gravitational waves	MARIA MAGDALENA GONZALEZ SANCHEZ YUNIOR FRAINEN PEREZ ARAUJO NISSIM ILLICH FRAIJA CABRERA et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
18	Analysis of the composition of TeV cosmic rays with HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
19	ALPs searches on galactic sources using the HAWC Observatory	ALVARO YOBAIN PRATTS MARTINEZ SERGIO HERNANDEZ CADENA JOSE RUBEN ALFARO MOLINA et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
20	The HAWC ultra-high-energy gamma-ray map with more than 5 years of data	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
21	Recent results from the High Altitude Water Cherenkov Observatory	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
22	Observation of the Crab Nebula and Galactic Center with the improved HAWC reconstruction algorithm	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
23	High energy gamma ray emission from HESS J1809-193: Morphological and Spectral studies with HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024

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24	HAWC observations of microquasars as powerful particle accelerators	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
25	HAWC measurements on the total energy spectrum of cosmic rays	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
26	Deep Learning for the HAWC Observatory	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
27	An updated survey of Active Galaxies with the HAWC gamma-ray observatory	ANNA LIA LONGINOTTI JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
28	The Southern Wide-field Gamma-ray Observatory	JOSE RUBEN ALFARO MOLINA ROBERTO ARCEO REYES ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
29	Study of the long-term Very High Energy emission of the blazars 1ES 1215+3031 and VER J0521+211 with the HAWC gamma-ray observatory	ANNA LIA LONGINOTTI JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
30	Revealing Ultra-High-Energy Gamma-Ray Emission from the eHWC J1825-134 Region with HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
31	Constraining the TeV Halo Population in M31	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024

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32	Low-cost Oceanographic Buoy for Evaluating the Mechanical Resistance of a Water Cherenkov Detector to be deployed on a high-altitude Natural Lake in Perú	JOSE RUBEN ALFARO MOLINA ROBERTO ARCEO REYES ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
33	Estimating the potential of SWGO to measure the composition-dependent behaviour of the CR anisotropy	JOSE RUBEN ALFARO MOLINA ROBERTO ARCEO REYES ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
34	Beyond the Standard Model with SWGO	JOSE RUBEN ALFARO MOLINA ROBERTO ARCEO REYES ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
35	Manufacture Details of a SWGO Double-Layer Tank Design - Water Cherenkov Detector Prototype	JOSE RUBEN ALFARO MOLINA ROBERTO ARCEO REYES ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
36	Updates on the Lake Design for SWGO	JOSE RUBEN ALFARO MOLINA ROBERTO ARCEO REYES ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
37	Sb for gamma / hadron separation in SWGO	LUKAS NELLEN FILLA JOSE RUBEN ALFARO MOLINA ROBERTO ARCEO REYES et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
38	Status of the SWGO air shower reconstruction using a template-based likelihood method	JOSE RUBEN ALFARO MOLINA ROBERTO ARCEO REYES ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
39	Searching for TeV emission from LHAASO J0341+5258 with VERITAS and HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024

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40	A Spectral, Morphological, and Emission Analysis of Gamma Ray Source HAWC J2031+415	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
41	Study of the HAWC counterpart of LHAASO J1849-0003 and its surroundings at TeV energies	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
42	VERITAS and HAWC observations of unidentified source LHAASO J2108+5157	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
43	TeV Halo Study of Geminga and Monogem with HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
44	Comparing HAWC blazars light curves with different data reconstruction versions	JOSÉ ANDRÉS GARCIA GONZALEZ MARIA MAGDALENA GONZALEZ SANCHEZ JOSE RUBEN ALFARO MOLINA et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
45	The Boomerang PWN and its SNR G106.3+2.7 Viewed in the Very-High-Energy Gamma-Ray Regime by the HAWC Observatory	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
46	A Preliminary Look at the Construction of the 4HWC Very High and Ultra High Energy Source Catalog Using the Multi Source Fit Method	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024
47	Cosmic-ray energy reconstruction using machine learning techniques	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2024

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48	HAWC Detection of a TeV Halo Candidate Surrounding a Radio-quiet Pulsar	JOSE RUBEN ALFARO MOLINA ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO NISSIM ILLICH FRAIJA CABRERA et al.	ASTROPHYSICAL JOURNAL LETTERS	2023
49	Detailed Analysis of the TeV gamma-Ray Sources 3HWC J1928+178, 3HWC J1930+188, and the New Source HAWC J1932+192	DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO MARIA CATALINA ESPINOZA HERNANDEZ et al.	ASTROPHYSICAL JOURNAL	2023
50	The High-Altitude Water Cherenkov (HAWC) observatory in Mexico: The primary detector	JOSE RUBEN ALFARO MOLINA ANA DELIA BECERRIL REYES ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	2023
51	Discovery of Gamma Rays from the Quiescent Sun with HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	PHYSICAL REVIEW LETTERS	2023
52	Follow-up Analysis to Geminga's Contribution to the Local Positron Excess with the HAWC gamma-ray Observatory	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
53	The all-particle cosmic ray energy spectrum measured with HAWC	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
54	Combined dark matter searches towards dwarf spheroidal galaxies with Fermi-LAT, HAWC, H.E.S.S., MAGIC, and VERITAS	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022

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55	An Optimized Search for Dark Matter in the Galactic Halo with HAWC	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
56	Limits on the Diffuse Gamma-Ray Background with HAWC	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
57	The Ultra-High-Energy Source MGRO J1908+06	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
58	HAWC results on TeV emitting blazars	ANNA LIA LONGINOTTI JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
59	CONSTRAINTS ON THE VERY HIGH ENERGY GAMMA-RAY EMISSION WITH HAWC	MARIA MAGDALENA GONZALEZ SANCHEZ NISSIM ILLICH FRAIJA CABRERA JOSE RUBEN ALFARO MOLINA et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
60	Convolutional Neural Networks for Low Energy Gamma-Ray Air Shower Identification with HAWC	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
61	Multimessenger NuEM Alerts with AMON	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
62	A search for spectral hardening in HAWC sources above 56 TeV	JOSE ROBERTO ANGELES CAMACHO ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO NISSIM ILLICH FRAIJA CABRERA et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022

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63	Characterizing $\gamma$ -ray sources with HAL (HAWC Accelerated Likelihood) and 3ML	JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
64	Studying High-Mass Microquasars with HAWC	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
65	Monitoring the radio galaxy M87 with HAWC	DANIEL OMAR AVILA ROJAS MARIA MAGDALENA GONZALEZ SANCHEZ NISSIM ILLICH FRAIJA CABRERA et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
66	Searching for $>177$ TeV Gamma Rays in the Vicinity of Mrk 501 with HAWC	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
67	Study of the eHWC J1825-134 Region at Highest Energies with HWAC	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
68	Use of Machine Learning for gamma/hadron separation with HAWC	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
69	Standardized Formats for Gamma-Ray Analysis Applied to HAWC Observatory Data	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
70	Spectral and Energy Morphology Analysis Study of HAWC J2031+415	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022

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71	A GeV to TeV view of shell-type SNRs	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
72	Modeling the non-flaring VHE emission from M87 as detected by the HAWC gamma ray observatory	ANNA LIA LONGINOTTI JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
73	HAWC measurements of the energy spectra of cosmic ray protons, helium and heavy nuclei in the TeV range	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
74	Reconstruction of Nearly Horizontal Muons in the HAWC Observatory	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
75	Limits on Diffuse Dark Matter with HAWC	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
76	Horizontal muon track identification with neural networks in HAWC	JOSE ROBERTO ANGELES CAMACHO HERMES LEON VARGAS JOSE RUBEN ALFARO MOLINA et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
77	The gamma-ray emission from 3HWC J1928+178	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
78	Study of the morphology of the region surrounding eHWC J1850+001	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022

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79	Search for correlations between high-energy gamma rays and neutrinos with the HAWC and ANTARES detectors	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
80	Search for TeV decaying dark matter from the Virgo cluster of galaxies	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
81	Galactic Gamma-Ray Diffuse Emission at TeV energies with HAWC Data	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
82	Particle Acceleration in the Cygnus Superbubble	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
83	Galactic Cosmic Ray increase associated with an interplanetary magnetic cloud observed by HAWC	ALEJANDRO LARA SANCHEZ ROSA TATIANA NIEMBRO HERNANDEZ JOSE RUBEN ALFARO MOLINA et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2022
84	Cosmic ray spectrum of protons plus helium nuclei between 6 and 158 TeV from HAWC data	JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	PHYSICAL REVIEW D	2022
85	Long-term Spectra of the Blazars Mrk 421 and Mrk 501 at TeV Energies Seen by HAWC	JOSE ROBERTO ANGELES CAMACHO ARUN BABU KOLLAMPARAMBIL PAUL DANIEL OMAR AVILA ROJAS et al.	ASTROPHYSICAL JOURNAL	2022

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86	Gamma/hadron separation with the HAWC observatory	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	2022
87	Study of the Very High Energy Emission of M87 through its Broadband Spectral Energy Distribution	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL	2022
88	Constraints on the Very High Energy Gamma-Ray Emission from Short GRBs with HAWC	DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO MARIA CATALINA ESPINOZA HERNANDEZ et al.	ASTROPHYSICAL JOURNAL	2022
89	gamma-Ray Emission from Classical Nova V392 Per: Measurements from Fermi and HAWC	JOSE RUBEN ALFARO MOLINA DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL	2022
90	Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using HAWC and IceCube Subthreshold Data	DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO MARIA CATALINA ESPINOZA HERNANDEZ et al.	ASTROPHYSICAL JOURNAL	2021
91	Detection of the Crab Nebula with the 9.7 m prototype Schwarzschild-Couder telescope	JOSE RUBEN ALFARO MOLINA FERNANDO GARFIAS MACEDO MARIA MAGDALENA GONZALEZ SANCHEZ et al.	ASTROPARTICLE PHYSICS	2021
92	Evidence of 200 TeV photons from HAWC J1825-134	JOSE RUBEN ALFARO MOLINA JOSE ROBERTO ANGELES CAMACHO ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL LETTERS	2021
93	A Survey of Active Galaxies at TeV Photon Energies with the HAWC Gamma-Ray Observatory	DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO MARIA CATALINA ESPINOZA HERNANDEZ et al.	ASTROPHYSICAL JOURNAL	2021

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94	Evidence that Ultra-high-energy Gamma Rays Are a Universal Feature near Powerful Pulsars	JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL LETTERS	2021
95	HAWC Search for High-mass Microquasars	JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPHYSICAL JOURNAL LETTERS	2021
96	HAWC observations of the acceleration of very-high-energy cosmic rays in the Cygnus Cocoon	JOSE ROBERTO ANGELES CAMACHO DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	Nature Astronomy	2021
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100	Author Correction: HAWC observations of the acceleration of very-high-energy cosmic rays in the Cygnus Cocoon (Nature Astronomy, (2021), 5, 5, (465–471), 10.1038/s41550-021-01318-y)	JOSE ROBERTO ANGELES CAMACHO ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO MARIA CATALINA ESPINOZA HERNANDEZ et al.	Nature Astronomy	2021
101	Alignment of the optical system of the 9.7-m prototype Schwarzschild-Couder Telescope	JOSE RUBEN ALFARO MOLINA FERNANDO GARFIAS MACEDO MARIA MAGDALENA GONZALEZ SANCHEZ et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2020
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105	Search for gamma-ray spectral lines from dark matter annihilation in dwarf galaxies with the High-Altitude Water Cherenkov observatory	DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO SIMONE DICHIARA et al.	PHYSICAL REVIEW D	2020
106	Constraining the local burst rate density of primordial black holes with HAWC	DANIEL OMAR AVILA ROJAS ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO MARIA CATALINA ESPINOZA HERNANDEZ et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2020
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123	Monitoring at TeV energies with M@TE	JOSE RUBEN ALFARO MOLINA ABEL BERNAL BEJARLE FERNANDO GARFIAS MACEDO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2017
124	Monitoring at TeV energies with M@TE	JOSE RUBEN ALFARO MOLINA ABEL BERNAL BEJARLE FERNANDO GARFIAS MACEDO et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2017
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136	Sensitivity of the high altitude water Cherenkov detector to sources of multi-TeV gamma rays	JOSE RUBEN ALFARO MOLINA ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO ROGELIO ANTONIO CABALLERO LOPEZ et al.	ASTROPARTICLE PHYSICS	2013
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143	Structure of the spectrograph ESOPO	ALEJANDRO FARAH SIMON JOSE DE JESUS GONZALEZ GONZALEZ MARIA HERLINDA PEDRAYES LOPEZ et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2008
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145	GUIELOA, the Mexican adaptive optics system: Expected performance and operation	ALAN MORGAN WATSON FORSTER FERNANDO GARFIAS MACEDO ARTURO ISMAEL IRIARTE VALVERDE et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2008
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151	The commissioning instrument for the Gran Telescopio Canarias: Made in Mexico	BEATRIZ SANCHEZ Y SANCHEZ CARLOS ALBERTO ESPEJO PIEDRA ALEJANDRO FARAH SIMON et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2006
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157	A dual infrared camera for near and mid infrared observations	LUIS SALAS CASALES LEONEL GUTIERREZ ALBORES MAURICIO MANUEL TAPIA IBARGUENGOITIA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2002
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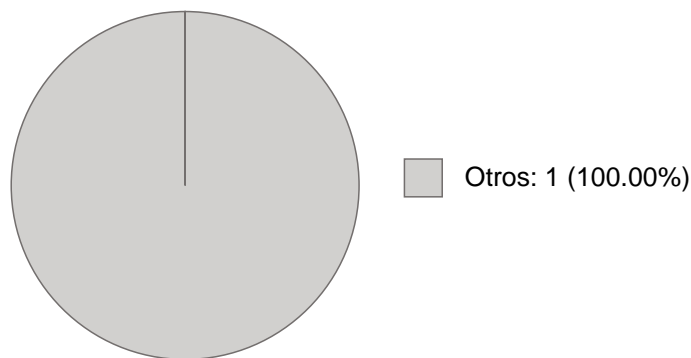
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162	University of Mexico adaptive optics program	SALVADOR CARLOS CUEVAS CARDONA FERNANDO GARFIAS MACEDO ARTURO ISMAEL IRIARTE VALVERDE et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1998
163	PUMILA: A near-infrared spectrograph for the kinematic study of the interstellar medium	MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS IRENE ANTONIA CRUZ GONZALEZ ESPINOSA LUIS SALAS CASALES et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	1998
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**LIBROS Y CAPITULOS CON ISBN**

**Obras con registro ISBN**



#	Título	Autores	Alcance	Año	ISBN
1	Relevance of the infrastructure in laboratories and manufacturing workshops for the integration and validation of astronomical instruments	ANA CAROLINA KEIMAN FREIRE ALEJANDRO FARAH SIMON LUIS CARLOS ALVAREZ NUÑEZ et al.	Conferenc e Paper	2024	9781510675230



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**PATENTES**

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**FUENTES DE INFORMACIÓN**

**Internos**

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2026
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2026
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

**Externos**

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2026
9	Documentos Indexados	Thomson Reuters	WoS	2008-2026
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2026
11	Patentes	IMPI	SIGA	2008-2024