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Coordinación de Planeación, Evaluación y
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Reporte individual



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Datos Generales

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Nombramientos

Vigente: INVESTIGADOR TITULAR C TC Definitivo
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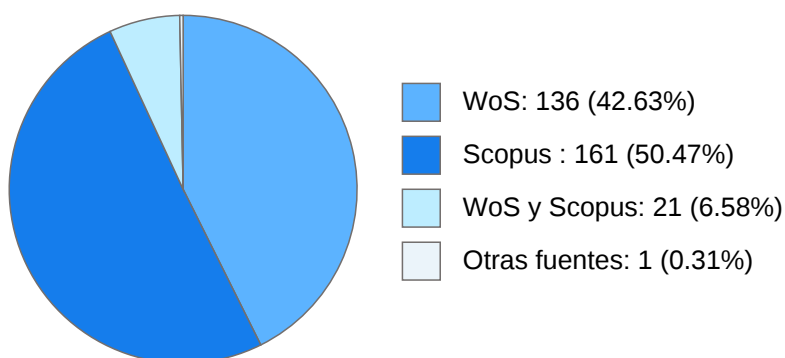
Estímulos, programas, premios y reconocimientos

SNI III 2009 - VIGENTE
SNI II 2008
PRIDE D - 2024
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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	On the origin of the peak of the sound velocity for isospin imbalanced strongly interacting matter	JOSE ALEJANDRO AYALA MERCADO Lopes B.S. Farias R.L.S. et al.	PHYSICS LETTERS B	2025
2	Magnetic field dependence of the neutral pion longitudinal screening mass in the linear sigma model with quarks	JOSE ALEJANDRO AYALA MERCADO Farias R.L.S. Hernández L.A. et al.	PHYSICAL REVIEW D	2024
3	Relaxation time for the alignment between quark spin and angular velocity in a rotating QCD medium	JOSE ALEJANDRO AYALA MERCADO SANTIAGO BERNAL LANGARICA IVONNE ALICIA MALDONADO CERVANTES et al.	PHYSICAL REVIEW D	2024
4	Collision energy dependence of source sizes for primary and secondary pions at energies available at the JINR nuclotron-based ion collider facility from Lévy fits	JOSE ALEJANDRO AYALA MERCADO SANTIAGO BERNAL LANGARICA Dominguez I. et al.	EUROPEAN PHYSICAL JOURNAL A	2024
5	Estimate for the Neutrino Magnetic Moment from Pulsar Kick Velocities Induced at the Birth of Strange Quark Matter Neutron Stars	JOSE ALEJANDRO AYALA MERCADO SANTIAGO BERNAL LANGARICA DARYEL MANREZA PARET	Universe	2024

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6	THE SPEED-OF-SOUND PEAK OF ISOSPIN-ASYMMETRIC QCD	JOSE ALEJANDRO AYALA MERCADO Parra L.C. Lopes B.S. et al.	Acta Physica Polonica B Proceedings Supplement	2024
7	Two-gluon one-photon vertex in a magnetic field and its explicit one-loop approximation in the intermediate field strength regime	JOSE ALEJANDRO AYALA MERCADO SANTIAGO BERNAL LANGARICA JORGE IGOR JABER URQUIZA et al.	PHYSICAL REVIEW D	2024
8	Influence of magnetic field-induced anisotropic gluon pressure during pre-equilibrium in heavy-ion collisions: A faster road toward isotropization	JOSE ALEJANDRO AYALA MERCADO Ana Julia Mizher	PHYSICAL REVIEW D	2024
9	QCD equation of state at finite isospin density from the linear sigma model with quarks: The cold case	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ PEREZ JOSE LUIS HERNANDEZ HERNANDEZ et al.	PHYSICAL REVIEW D	2023
10	Searching for the Baryon-to-Meson Transition Region with the MPD at NICA	JOSE ALEJANDRO AYALA MERCADO WOLFGANG PETER BIETENHOLZ ELEAZAR CUAUTLE FLORES et al.	PHYSICS OF ATOMIC NUCLEI	2023
11	Finite volume and magnetic field effects on the two-pion correlation function in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO SANTIAGO BERNAL LANGARICA Cristian Villavicencio	PHYSICAL REVIEW D	2022
12	Rise and fall of ρ and ρ^- global polarization in semi-central heavy-ion collisions at HADES, NICA and RHIC energies from the core-corona model	JOSE ALEJANDRO AYALA MERCADO Domínguez I. Maldonado I. et al.	PHYSICAL REVIEW C	2022
13	Collision energy dependence of the critical end point from baryon number fluctuations in the Linear Sigma Model with quarks	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Almeida Zamora B. et al.	EUROPEAN PHYSICAL JOURNAL A	2022
14	Status and initial physics performance studies of the MPD experiment at NICA	JOSE ALEJANDRO AYALA MERCADO WOLFGANG PETER BIETENHOLZ ELEAZAR CUAUTLE FLORES et al.	EUROPEAN PHYSICAL JOURNAL A	2022
15	Anisotropic photon emission from gluon fusion and splitting in a strong magnetic background: The two-gluon one-photon vertex	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ PEREZ Castaño-Yepes J.D. et al.	PHYSICAL REVIEW C	2022
16	The conceptual design of the miniBeBe detector proposed for NICA-MPD	JOSE ALEJANDRO AYALA MERCADO WOLFGANG PETER BIETENHOLZ ELEAZAR CUAUTLE FLORES et al.	JOURNAL OF INSTRUMENTATION	2021
17	Neutron star kick velocity induced by neutrino chirality flip and a lower bound for the neutrino magnetic moment	JOSE ALEJANDRO AYALA MERCADO Santiago Bernal Langarica Saul Hernandez-Ortiz et al.	ASTRONOMISCHES NACHRICHTEN	2021

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18	Magnetic field dependence of the neutral pion mass in the linear sigma model with quarks: The strong field case	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Hernández J.L. et al.	PHYSICAL REVIEW D	2021
19	Gluon polarization tensor and dispersion relation in a weakly magnetized medium	JOSE ALEJANDRO AYALA MERCADO JORDI SALINAS SAN MARTIN Castaño-Yepes J.D. et al.	EUROPEAN PHYSICAL JOURNAL A	2021
20	Fermion propagator in a rotating environment	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS K. Raya et al.	PHYSICAL REVIEW D	2021
21	Hyperons from Bi plus Bi Collisions at MPD-NICA: Preliminary Analysis of Production at Generation, Simulation and Reconstruction Level	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES ISABEL DOMINGUEZ JIMENEZ et al.	PHYSICS OF PARTICLES AND NUCLEI	2021
22	Relaxation time for the alignment between the spin of a finite-mass quark or antiquark and the thermal vorticity in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS David de la Cruz et al.	PHYSICAL REVIEW D	2020
23	Thermal corrections to the gluon magnetic Debye mass	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Jorge David Castano-Yepes et al.	REVISTA MEXICANA DE FISICA	2020
24	New channels of prompt-photon production by magnetic fields in heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ISABEL DOMINGUEZ JIMENEZ David Castao-Yepes J. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2020
25	Quark spin - thermal vorticity alignment and the Lambda, (Λ)over-bar polarization in heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO JORDI SALINAS SAN MARTIN De La Cruz D. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2020
26	Two-component source to explain Lambda and (Λ)over-bar global polarization in non-central heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES JORDI SALINAS SAN MARTIN et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2020
27	Core meets corona: A two-component source to explain ? and ?? global polarization in semi-central heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES JORDI SALINAS SAN MARTIN et al.	PHYSICS LETTERS B	2020
28	Magnetic corrections to the boson self-coupling and boson-fermion coupling in the linear sigma model with quarks	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Hernández J.L. et al.	PHYSICAL REVIEW D	2020

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29	A beam-beam monitoring detector for the MPD experiment at NICA	JOSE ALEJANDRO AYALA MERCADO WOLFGANG PETER BIETENHOLZ LUIS MANUEL MONTAÑO RAMIREZ et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATO RS SPECTROMETER S DETECTORS AND ASSOCIATED EQUIPMENT	2020
30	Relaxation time for quark spin and thermal vorticity alignment in heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS David de la Cruz et al.	PHYSICS LETTERS B	2020
31	Centrality dependence of photon yield and elliptic flow from gluon fusion and splitting induced by magnetic fields in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO JORDI SALINAS SAN MARTIN Castaño-Yepes J.D. et al.	EUROPEAN PHYSICAL JOURNAL A	2020
32	Gluon polarization tensor in a magnetized medium: Analytic approach starting from the sum over Landau levels	JOSE ALEJANDRO AYALA MERCADO Jorge David Castano-Yepes M. Loewe et al.	PHYSICAL REVIEW D	2020
33	On the critical end point in a two-flavor linear sigma model coupled to quarks	JOSE ALEJANDRO AYALA MERCADO Hernández L.A. Loewe M. et al.	EUROPEAN PHYSICAL JOURNAL A	2020
34	Fluctuating temperature and baryon chemical potential in heavy-ion collisions and the position of the critical end point in the effective QCD phase diagram	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Saul Hernandez-Ortiz et al.	PHYSICAL REVIEW D	2020
35	EFFECTS OF SUPERSTATISTICS ON THE LOCATION OF THE EFFECTIVE QCD CRITICAL END POINT	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS M. Hentschinski et al.	Ukrainian Journal of Physics	2019
36	Heavy-ion physics	JOSE ALEJANDRO AYALA MERCADO	Cern Yellow Reports: School Proceedings	2018
37	Thermomagnetic evolution of the QCD strong coupling	JOSE ALEJANDRO AYALA MERCADO CESAR AUGUSTO DOMINGUEZ PEREZ TEJADA LUIS ALBERTO HERNANDEZ ROSAS et al.	PHYSICAL REVIEW D	2018

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38	Magnetic field dependence of the neutral pion mass in the linear sigma model coupled to quarks: The weak field case	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Ricardo L. S. Farias et al.	PHYSICAL REVIEW D	2018
39	Superstatistics and the effective QCD phase diagram	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Martin Hentschinski et al.	PHYSICAL REVIEW D	2018
40	Neutron stars velocities and magnetic fields	JOSE ALEJANDRO AYALA MERCADO GABRIELLA PICCINELLI BOCCHI Paret D.M. et al.	EOS ANNUAL MEETING, EOSAM 2024	2018
41	Chiral asymmetry during the EWPT from CP-violating scattering off bubble walls	JOSE ALEJANDRO AYALA MERCADO Hernández L.A. Salinas J.	EOS ANNUAL MEETING, EOSAM 2024	2018
42	Locating the critical end point using the linear sigma model coupled to quarks.	JOSE ALEJANDRO AYALA MERCADO Flores J.A. Hernández L.A. et al.	EOS ANNUAL MEETING, EOSAM 2024	2018
43	Using the Linear Sigma Model with quarks to describe the QCD phase diagram and to locate the critical end point	JOSE ALEJANDRO AYALA MERCADO Castaño-Yepes J.D. Flores J.A. et al.	EOS ANNUAL MEETING, EOSAM 2024	2018
44	Prompt photon yield and $\gamma\gamma$ coefficient from gluon fusion induced by magnetic field in heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO Castaño-Yepes J.D. Dominguez C.A. et al.	EOS ANNUAL MEETING, EOSAM 2024	2018
45	QCD phase diagram from chiral symmetry restoration: analytic approach at high and low temperature using the linear sigma model with quarks	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS S. Hernandez-Ortiz	REVISTA MEXICANA DE FISICA	2018
46	Kicks of magnetized strange quark stars induced by anisotropic emission of neutrinos	JOSE ALEJANDRO AYALA MERCADO GABRIELLA PICCINELLI BOCCHI ANGEL SANCHEZ CECILIO et al.	PHYSICAL REVIEW D	2018
47	QGP hydrodynamical study using energy-momentum in-medium deposition by an extended source.	JOSE ALEJANDRO AYALA MERCADO Maldonado-Gonzalez J.C. Dominguez I. et al.	EOS ANNUAL MEETING, EOSAM 2024	2018
48	Thermal photons from gluon fusion with magnetic fields	JOSE ALEJANDRO AYALA MERCADO Castaño-Yepes, J.D. Dominguez, C.A. et al.	EOS ANNUAL MEETING, EOSAM 2024	2017
49	Finite Temperature QCD Sum Rules: A Review	JOSE ALEJANDRO AYALA MERCADO Dominguez, C. A. Loewe, M.	ADVANCES IN HIGH ENERGY PHYSICS	2017
50	Charge asymmetry from CP-violating fermion scattering off bubble walls during the electroweak phase transition	JOSE ALEJANDRO AYALA MERCADO Hernandez, L. A. Salinas, Jordi	PHYSICAL REVIEW D	2017

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51	Prompt photon yield and elliptic flow from gluon fusion induced by magnetic fields in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO CESAR AUGUSTO DOMINGUEZ PEREZ TEJADA LUIS ALBERTO HERNANDEZ ROSAS et al.	PHYSICAL REVIEW D	2017
52	Spinor helicity methods in high-energy factorization: Efficient momentum-space calculations in the Color Glass Condensate formalism	JOSE ALEJANDRO AYALA MERCADO Hentschinski, Martin Jalilian-Marian, Jamal et al.	NUCLEAR PHYSICS B	2017
53	Thermomagnetic correlation lengths of strongly interacting matter in the Nambu-Jona-Lasinio model	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Loewe, M. et al.	PHYSICAL REVIEW D	2017
54	Transport coefficients from energy loss studies in an expanding QGP	JOSE ALEJANDRO AYALA MERCADO Isabel Dominguez Jamal Jalilian-Marian et al.	Nuclear And Particle Physics Proceedings	2017
55	Charged fermion gas polarization in strong magnetic fields	GABRIELLA PICCINELLI BOCCHI JOSE ALEJANDRO AYALA MERCADO Paret D.M. et al.	ASTRONOMISCH E NACHRICHTEN	2017
56	Magnetic catalysis of a finite-size pion condensate	JOSE ALEJANDRO AYALA MERCADO Mercado, Pedro Villavicencio, C.	PHYSICAL REVIEW C	2017
57	Chiral symmetry transition in the linear sigma model with quarks: Counting effective QCD degrees of freedom from low to high temperature	JOSE ALEJANDRO AYALA MERCADO David Castano-Yepes, Jorge Cobos-Martinez, J. J. et al.	International Journal Of Modern Physics A	2016
58	Polarized 3 parton production in inclusive DIS at small x	JOSE ALEJANDRO AYALA MERCADO Hentschinski, Martin Jalilian-Marian, Jamal et al.	PHYSICS LETTERS B	2016
59	Thermomagnetic properties of the strong coupling in the local Nambu-Jona-Lasinio model	JOSE ALEJANDRO AYALA MERCADO Dominguez, C. A. Hernandez, L. A. et al.	PHYSICAL REVIEW D	2016
60	Relating $\langle q \rangle_{\text{over-cap}}$, η/s , and ΔE in an expanding quark-gluon plasma	JOSE ALEJANDRO AYALA MERCADO Dominguez, Isabel Jalilian-Marian, Jamal et al.	PHYSICAL REVIEW C	2016
61	Finite temperature effects and the validity of the Weinberg sum rules	JOSE ALEJANDRO AYALA MERCADO Dominguez C.A. Loewe M. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2016
62	Thermo-magnetic behavior of the quark-gluon vertex	JOSE ALEJANDRO AYALA MERCADO Cobos-Martinez, J. J. Loewe, M. et al.	Nuclear And Particle Physics Proceedings	2016
63	Inverse magnetic catalysis from the properties of the QCD coupling in a magnetic field	JOSE ALEJANDRO AYALA MERCADO CESAR AUGUSTO DOMINGUEZ PEREZ TEJADA LUIS ALBERTO HERNANDEZ ROSAS et al.	PHYSICS LETTERS B	2016

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64	Hadronic matter at the edge: A survey of some theoretical approaches to the physics of the QCD phase diagram	JOSE ALEJANDRO AYALA MERCADO	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2016
65	Inverse magnetic catalysis in the linear sigma model	JOSE ALEJANDRO AYALA MERCADO Loewe M. Zamora R.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2016
66	On the magnetic catalysis and inverse catalysis of phase transitions in the linear sigma model	JOSE ALEJANDRO AYALA MERCADO Loewe, M. Villavicencio, C. et al.	Nuclear And Particle Physics Proceedings	2015
67	Inverse magnetic catalysis in the linear sigma model with quarks	JOSE ALEJANDRO AYALA MERCADO Loewe, M. Zamora, R.	PHYSICAL REVIEW D	2015
68	Finite temperature quark-gluon vertex with a magnetic field in the hard thermal loop approximation	JOSE ALEJANDRO AYALA MERCADO Maria Elena TejedaYeomans R. Zamora et al.	PHYSICAL REVIEW D	2015
69	Quark deconfinement and gluon condensate in a weak magnetic field from QCD sum rules	JOSE ALEJANDRO AYALA MERCADO CESAR AUGUSTO DOMINGUEZ PEREZ TEJADA Hernandez, L. A. et al.	PHYSICAL REVIEW D	2015
70	The effective QCD phase diagram and the critical end point	JOSE ALEJANDRO AYALA MERCADO ADNAN BASHIR CobosMartinez, J. J. et al.	NUCLEAR PHYSICS B	2015
71	Impact of the energy-loss spatial profile and shear-viscosity to entropy-density ratio for the Mach cone versus head-shock signals produced by a fast-moving parton in a quark-gluon plasma	JOSE ALEJANDRO AYALA MERCADO Jorge David CastanoYepes ISABEL DOMINGUEZ JIMENEZ et al.	PHYSICAL REVIEW C	2015
72	Jet asymmetry and momentum imbalance from 2+2 and 2+3 partonic processes in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ISABEL DOMINGUEZ JIMENEZ Maria Elena TejedaYeomans et al.	PHYSICAL REVIEW C	2015
73	Magnetized effective QCD phase diagram	JOSE ALEJANDRO AYALA MERCADO CESAR AUGUSTO DOMINGUEZ PEREZ TEJADA LUIS ALBERTO HERNANDEZ ROSAS et al.	PHYSICAL REVIEW D	2015
74	Magnetized effective QCD phase diagram (vol 92, 096011, 2015)	JOSE ALEJANDRO AYALA MERCADO CESAR AUGUSTO DOMINGUEZ PEREZ TEJADA LUIS ALBERTO HERNANDEZ ROSAS et al.	PHYSICAL REVIEW D	2015

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75	QCD phase diagram and the constant mass approximation	JOSE ALEJANDRO AYALA MERCADO ADNAN BASHIR Ahmad A. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2015
76	The QCD phase diagram from Schwinger-Dyson equations	JOSE ALEJANDRO AYALA MERCADO Gutierrez, Enif Ahmad, Aftab et al.	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	2014
77	Chiral transition with magnetic fields	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Ana Julia Mizher et al.	PHYSICAL REVIEW D	2014
78	Inverse magnetic catalysis for the chiral transition induced by thermo-magnetic effects on the coupling constant	JOSE ALEJANDRO AYALA MERCADO Ana Julia Mizher Loewe, M. et al.	PHYSICAL REVIEW D	2014
79	Weinberg sum rules at finite temperature	JOSE ALEJANDRO AYALA MERCADO Dominguez, C. A. Loewe, M. et al.	PHYSICAL REVIEW D	2014
80	Warm inflation in the presence of magnetic fields	GABRIELLA PICCINELLI BOCCHI ANGEL SANCHEZ CECILIO JOSE ALEJANDRO AYALA MERCADO et al.	PHYSICAL REVIEW D	2014
81	Small-x QCD evolution of 2n Wilson line correlator: The weak field limit	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Cazaroto, Erike R. et al.	PHYSICAL REVIEW D	2014
82	The double-hump of azimuthal correlations in HIC: Head shock vs. Mach cone	JOSE ALEJANDRO AYALA MERCADO Isabel Dominguez Maria ElenaTejeda-Yeomans	AIP Conference Proceedings	2014
83	Head shock versus Mach cone: Azimuthal correlations from 2?3 parton processes in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ISABEL DOMINGUEZ JIMENEZ Elena Tejeda-Yeomans, Maria	PHYSICAL REVIEW C	2013
84	Phase diagram for charged scalars in a magnetic field at finite temperature	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Jesus Lopez et al.	PHYSICAL REVIEW D	2013
85	Dimuon production from in-medium rho decays from QCD sum rules	JOSE ALEJANDRO AYALA MERCADO LUIS ALBERTO HERNANDEZ ROSAS Ana Julia Mizher et al.	PHYSICAL REVIEW D	2013
86	Warm inflation in presence of magnetic fields	GABRIELLA PICCINELLI BOCCHI JOSE ALEJANDRO AYALA MERCADO ANGEL SANCHEZ CECILIO et al.	AIP Conference Proceedings	2013
87	Monte Carlo approach for hadron azimuthal correlations in high energy proton and nuclear collisions	JOSE ALEJANDRO AYALA MERCADO ISABEL DOMINGUEZ JIMENEZ Jalilian-Marian, Jamal et al.	PHYSICAL REVIEW C	2012

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88	Magnetic catalysis of a charged Bose-Einstein condensate	JOSE ALEJANDRO AYALA MERCADO Loewe, M. Cristobal Rojas, Juan et al.	PHYSICAL REVIEW D	2012
89	Rho-meson resonance broadening in QCD at finite temperature	JOSE ALEJANDRO AYALA MERCADO Dominguez, C. A. Loewe, M. et al.	PHYSICAL REVIEW D	2012
90	Publisher's note: Magnetic catalysis of a charged bose-einstein condensate	JOSE ALEJANDRO AYALA MERCADO Loewe M. Rojas J.C. et al.	PHYSICAL REVIEW D	2012
91	Three-hadron angular correlations from perturbative QCD at the Relativistic Heavy Ion Collider and at the Large Hadron Collider	JOSE ALEJANDRO AYALA MERCADO Dominguez I. Jalilian-Marian J. et al.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2011
92	Dynamical heavy-quark recombination and the non-photonic single electron puzzle at RHIC	JOSE ALEJANDRO AYALA MERCADO LUIS MANUEL MONTAÑO RAMIREZ GENARO TOLEDO SANCHEZ et al.	AIP Conference Proceedings	2011
93	AIP Conference Proceedings: Preface	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES GUY PAIC et al.	AIP Conference Proceedings	2011
94	The broad away side of azimuthal correlations: 3 vs 2 final state particles in high energy nuclear collisions	JOSE ALEJANDRO AYALA MERCADO ANTONIO ORTIZ VELASQUEZ GUY PAIC et al.	AIP Conference Proceedings	2011
95	Three-hadron angular correlations in high-energy proton-proton and nucleus-nucleus collisions from perturbative QCD	JOSE ALEJANDRO AYALA MERCADO ANTONIO ORTIZ VELASQUEZ GUY PAIC et al.	PHYSICAL REVIEW C	2011
96	QCD phase diagram from finite energy sum rules	JOSE ALEJANDRO AYALA MERCADO Bashir, Adnan Dominguez, C. A. et al.	PHYSICAL REVIEW D	2011
97	Impact of a uniform magnetic field and non-zero temperature on explicit chiral symmetry breaking in QED: Arbitrary hierarchy of energy scales	JOSE ALEJANDRO AYALA MERCADO Bashir, A. Raya, A. et al.	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	2010
98	Spin alignment of vector mesons in heavy ion and proton-proton collisions	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES Herrera Corral, G. et al.	PHYSICS LETTERS B	2010
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100	Chiral and parity symmetry breaking for planar fermions: Effects of a heat bath and uniform external magnetic field	JOSE ALEJANDRO AYALA MERCADO Bashir, Adnan Gutierrez, Enif et al.	PHYSICAL REVIEW D	2010

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101	Symmetry restoration at finite temperature with weak magnetic fields	Jorge Navarro JOSE ALEJANDRO AYALA MERCADO GABRIELLA PICCINELLI BOCCHI et al.	PHYSICAL REVIEW D	2010
102	Intermediate pT phenomena in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO	AIP Conference Proceedings	2010
103	Off-mass-shell effects on collisional parton energy loss in a finite QCD media	JOSE ALEJANDRO AYALA MERCADO Zetina L.M.M. Magnin J. et al.	AIP Conference Proceedings	2009
104	Chiral phase transition in peripheral heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ADNAN BASHIR Raya A. et al.	AIP Conference Proceedings	2009
105	AIP Conference Proceedings: Preface	JOSE ALEJANDRO AYALA MERCADO ANGEL SANCHEZ CECILIO Calcáneo-Roldán C. et al.	AIP Conference Proceedings	2009
106	Chiral phase transition in relativistic heavy-ion collisions revisited: toward a description of weak magnetic fields effects	JOSE ALEJANDRO AYALA MERCADO Bashir, Adnan Raya, Alfredo et al.	REVISTA MEXICANA DE FISICA	2009
107	Dynamical heavy-quark recombination and the nonphotonic single-electron puzzle at energies available at the BNL Relativistic Heavy Ion Collider (RHIC)	JOSE ALEJANDRO AYALA MERCADO GENARO TOLEDO SANCHEZ Magnin, J. et al.	PHYSICAL REVIEW C	2009
108	Fine structure in the azimuthal transverse momentum correlations at $\sqrt{s_{NN}}=200$ GeV using the event shape analysis	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES ISABEL DOMINGUEZ JIMENEZ et al.	EUROPEAN PHYSICAL JOURNAL C	2009
109	Chiral phase transition in relativistic heavy-ion collisions with weak magnetic fields: Ring diagrams in the linear sigma model	JOSE ALEJANDRO AYALA MERCADO Bashir, Adnan Raya, Alfredo et al.	PHYSICAL REVIEW D	2009
110	Modelling the hadronization of quark matter	JOSE ALEJANDRO AYALA MERCADO M. Martinez GUY PAIC et al.	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	2008
111	Dynamical quark recombination in ultrarelativistic heavy-ion collisions and the proton-to-pion ratio	JOSE ALEJANDRO AYALA MERCADO Mauricio Martinez GUY PAIC et al.	PHYSICAL REVIEW C	2008
112	Collisional parton energy loss in a finite size QCD medium reexamined: Off-mass-shell effects	JOSE ALEJANDRO AYALA MERCADO LUIS MANUEL MONTAÑO RAMIREZ EDUARDO MARTIN ROJAS PEREZ et al.	PHYSICAL REVIEW C	2008
113	Dynamical mass generation in QED with magnetic fields: Arbitrary field strength and coupling constant	EDUARDO MARTIN ROJAS PEREZ JOSE ALEJANDRO AYALA MERCADO ADNAN BASHIR et al.	PHYSICAL REVIEW D	2008

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114	Feynman parametrization and Mellin summation at finite temperature	JOSE ALEJANDRO AYALA MERCADO GABRIELLA PICCINELLI BOCCHI Sanchez, Angel et al.	PHYSICAL REVIEW D	2008
115	Proton to pion ratio at RHIC from dynamical quark recombination	JOSE ALEJANDRO AYALA MERCADO GUY PAIC GENARO TOLEDO SANCHEZ et al.	AIP Conference Proceedings	2008
116	MSM self-energies at finite temperature in the presence of weak magnetic fields: Towards a full symmetry restoration study	GABRIELLA PICCINELLI BOCCHI JOSE ALEJANDRO AYALA MERCADO Tejeda-Yeomans M.E. et al.	AIP Conference Proceedings	2008
117	Effective potential at finite temperature in a constant hypermagnetic field: Ring diagrams in the standard model	JOSE ALEJANDRO AYALA MERCADO GABRIELLA PICCINELLI BOCCHI Sanchez A.	PHYSICAL REVIEW D	2007
118	Finite size effects on pion spectra in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES LUIS MANUEL MONTAÑO RAMIREZ et al.	PHYSICS LETTERS B	2006
119	Dynamical mass generation in strongly coupled quantum electrodynamics with weak magnetic fields	JOSE ALEJANDRO AYALA MERCADO ADNAN BASHIR Raya A. et al.	PHYSICAL REVIEW D	2006
120	ALICE: Physics performance report, volume II	JOSE RUBEN ALFARO MOLINA JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES et al.	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	2006
121	Proton and pion transverse spectra at the BNL Relativistic Heavy Ion Collider from radial flow and finite size effects	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES LUIS MANUEL MONTAÑO RAMIREZ et al.	PHYSICAL REVIEW C	2006
122	Dynamical mass generation in QED with weak magnetic fields	JOSE ALEJANDRO AYALA MERCADO ADNAN BASHIR Raya A. et al.	AIP Conference Proceedings	2006
123	Relativistic heavy-ion physics in Mexico	JOSE ALEJANDRO AYALA MERCADO	AIP Conference Proceedings	2006
124	Effective potential at finite temperature in a constant magnetic field: Ring diagrams in a scalar theory	JOSE ALEJANDRO AYALA MERCADO GABRIELLA PICCINELLI BOCCHI SARIRA SAHU et al.	PHYSICAL REVIEW D	2005
125	Exact solution for charged-particle propagation during a first-order electroweak phase transition with hypermagnetic fields	JAIME BESPROSVANY FRIDZON JOSE ALEJANDRO AYALA MERCADO	PHYSICAL REVIEW D	2005
126	ALICE: Physics performance report, volume I	GUY PAIC JOSE RUBEN ALFARO MOLINA JOSE ALEJANDRO AYALA MERCADO et al.	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	2004

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127	Chiral fermion mass and dispersion relations at finite temperature in the presence of hypermagnetic fields	JOSE ALEJANDRO AYALA MERCADO ADNAN BASHIR SARIRA SAHU	PHYSICAL REVIEW D	2004
128	Mass of the ρ^0 meson in ultra-relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO Contreras J.G. Magnin J.	PHYSICS LETTERS B	2004
129	ρ^0 propagation and dilepton production at finite pion density and temperature	JOSE ALEJANDRO AYALA MERCADO Magnin J.	PHYSICAL REVIEW C	2003
130	[Formula Presented] propagation and dilepton production at finite pion density and temperature	JOSE ALEJANDRO AYALA MERCADO Magnin J.	PHYSICAL REVIEW C	2003
131	Axial charge segregation and CP-violation during the electroweak phase transition with hypermagnetic fields	JOSE ALEJANDRO AYALA MERCADO JAIME BESPROSVANY FRIDZON	NUCLEAR PHYSICS B	2003
132	Dynamical mass generation for fermions in quenched quantum electrodynamics at finite temperature	JOSE ALEJANDRO AYALA MERCADO ADNAN BASHIR	PHYSICAL REVIEW D	2003
133	ρ^0 polarization in ultrarelativistic nucleus-nucleus collisions	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES LUIS MANUEL MONTAÑO RAMIREZ et al.	ACTA PHYS HUNG NS-H	2002
134	Fermion scattering off electroweak phase transition kink walls with hypermagnetic fields	JOSE ALEJANDRO AYALA MERCADO GABRIELLA PICCINELLI BOCCHI Pallares G.	PHYSICAL REVIEW D	2002
135	Quark-Gluon plasma formation and ρ^0 polarization in ultra-relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES LUIS MANUEL MONTAÑO RAMIREZ et al.	REVISTA MEXICANA DE FISICA	2002
136	[Formula Presented] polarization as a probe for production of deconfined matter in ultrarelativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES Herrera G. et al.	PHYSICAL REVIEW C	2002
137	Pion dispersion relation at finite density and temperature	JOSE ALEJANDRO AYALA MERCADO Amore P. Aranda A.	PHYSICAL REVIEW C	2002
138	ρ^0 polarization as a probe for production of deconfined matter in ultrarelativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES LUIS MANUEL MONTAÑO RAMIREZ et al.	PHYSICAL REVIEW C	2002
139	Pion dispersion relation at finite density and temperature	JOSE ALEJANDRO AYALA MERCADO Amore P. Aranda A.	PHYSICAL REVIEW C	2002
140	Boundary and expansion effects on two-pion correlation functions in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO Sánchez A.	PHYSICAL REVIEW C	2001
141	Boundary and expansion effects on two-pion correlation functions in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO Sánchez A.	PHYSICAL REVIEW C	2001

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142	Longitudinal and transverse fermion-boson vertex in QED at finite temperature in the hard thermal loop approximation	JOSE ALEJANDRO AYALA MERCADO	PHYSICAL REVIEW D	2001
143	Axially asymmetric fermion scattering off electroweak phase transition bubble walls with hypermagnetic fields	JOSE ALEJANDRO AYALA MERCADO JAIME BESPROSVANY FRIDZON GABRIELLA PICCINELLI BOCCHI et al.	PHYSICAL REVIEW D	2001
144	Right-handed neutrino production in dense and hot plasmas	JOSE ALEJANDRO AYALA MERCADO JUAN CARLOS D'OLIVO SAEZ MANUEL TORRES LABANSAT	NUCLEAR PHYSICS B	2000
145	Pion dispersion relation at finite temperature in the linear sigma model from chiral Ward identities	JOSE ALEJANDRO AYALA MERCADO SARIRA SAHU Napsuciale M.	PHYSICS LETTERS B	2000
146	Damping and reaction rates and wave function renormalization of fermions in hot gauge theories	JOSE ALEJANDRO AYALA MERCADO JUAN CARLOS D'OLIVO SAEZ Weber A.	International Journal Of Modern Physics A	2000
147	Chiral Ward identities and pion propagation at finite temperature in the linear sigma model	JOSE ALEJANDRO AYALA MERCADO	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2000
148	Pion propagation in the linear sigma model at finite temperature	JOSE ALEJANDRO AYALA MERCADO SARIRA SAHU	PHYSICAL REVIEW D	2000
149	Density and expansion effects on pion spectra in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO LUIS MANUEL MONTAÑO RAMIREZ Barreiro J.	PHYSICAL REVIEW C	1999
150	Bound on the neutrino magnetic moment from chirality flip in supernovae	JOSE ALEJANDRO AYALA MERCADO JUAN CARLOS D'OLIVO SAEZ MANUEL TORRES LABANSAT	PHYSICAL REVIEW D	1999
151	Bound on the neutrino magnetic moment from chirality flip in supernovae	JOSE ALEJANDRO AYALA MERCADO JUAN CARLOS D'OLIVO SAEZ	PHYSICAL REVIEW D	1999
152	Density and expansion effects on pion spectra in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO Barreiro J. M. Montaña L.	PHYSICAL REVIEW C	1999
153	Damping and reaction rates of fermions in hot gauge theories	JOSE ALEJANDRO AYALA MERCADO	NUCL PHYS B-PROC SUP	1999
154	The quantum mechanics of particle-correlation measurements in high-energy heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO Baym G. Popp J.L.	NUCLEAR PHYSICS A	1999
155	The expanding pion liquid and the pion spectra	JOSE ALEJANDRO AYALA MERCADO	REVISTA MEXICANA DE FISICA	1999

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156	Size of fireballs created in high energy heavy ion collisions as inferred from Coulomb distortions of pion spectra	JOSE ALEJANDRO AYALA MERCADO Jeon S. Kapusta J.	PHYSICAL REVIEW C	1999
157	Coulomb distortion of p^+/p^- as a tool to determine the fireball radius in central high energy heavy ion collisions	JOSE ALEJANDRO AYALA MERCADO Jeon S. Kapusta J.	NUCLEAR PHYSICS A	1999
158	Parton densities in a nucleon	JOSE ALEJANDRO AYALA MERCADO Gay Ducati M.B. Levin E.M.	NUCLEAR PHYSICS B	1998
159	Coulomb effects on charged kaon distributions from Vlasov dynamics	JOSE ALEJANDRO AYALA MERCADO Kapusta J.	PHYSICAL REVIEW C	1997
160	QCD evolution of the gluon density in a nucleus	JOSE ALEJANDRO AYALA MERCADO Gay Ducati M.B. Levin E.M.	NUCLEAR PHYSICS B	1997
161	Density and boundary effects on pion distributions in relativistic heavy-ion collisions	JOSE ALEJANDRO AYALA MERCADO Smerzi A.	PHYSICS LETTERS B	1997
162	Quantum corrections to the weizsäcker-williams gluon distribution function at small x	JOSE ALEJANDRO AYALA MERCADO Jalilian-Marian J. McLerran L. et al.	PHYSICAL REVIEW D	1996
163	Gluon propagator in non-Abelian Weizsäcker-Williams fields	JOSE ALEJANDRO AYALA MERCADO Jalilian-Marian J. McLerran L. et al.	PHYSICAL REVIEW D	1995

JOSE ALEJANDRO AYALA MERCADO

LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

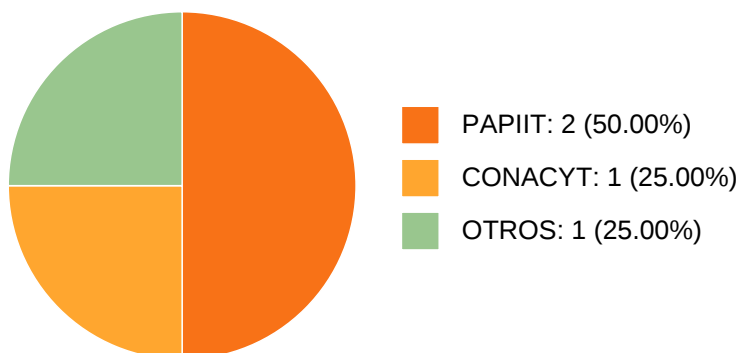


#	Título	Autores	Alcance	Año	ISBN
1	Antimateria: la materia efímera	JOSE ALEJANDRO AYALA MERCADO	Libro Completo	2018	9786078341658
2	To grow or not to grow: Thermomagnetic behavior of the strong coupling	JOSE ALEJANDRO AYALA MERCADO DARYEL MANREZA PARET Dominguez C.A. et al.	Conferencia Paper	2018	9781510885110
3	Antimateria: la materia efímera	JOSE ALEJANDRO AYALA MERCADO	Libro Completo	2017	9786075182193
4	Antimateria: la materia efímera	JOSE ALEJANDRO AYALA MERCADO Luis Manuel Montaña Jorge Luis Navarro et al.	Libro Completo	2016	9786077782858
5	Finite temperature qcd: Quarkonium survival at and beyond tc and dimuon production in heavy ion collisions	JOSE ALEJANDRO AYALA MERCADO Dominguez C.A. Loewe M. et al.	Conferencia Paper	2016	9791096879007

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

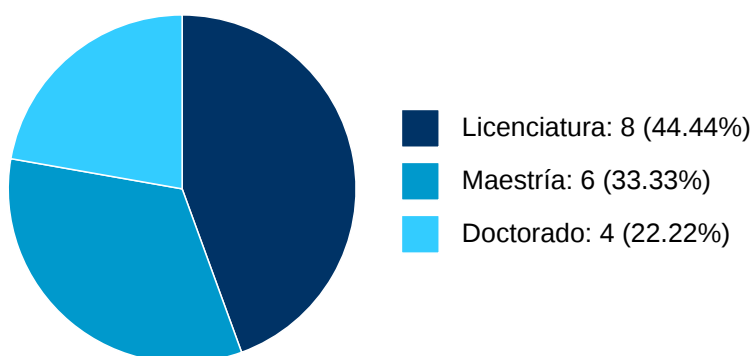


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Física de partículas en condiciones extremas con campos magnéticos	JOSE ALEJANDRO AYALA MERCADO	Recursos CONACYT	30-08-2016	13-09-2019
2	Exploración teórica y experimental del diagrama de fase de la cromodinámica cuántica.	JOSE ALEJANDRO AYALA MERCADO WOLFGANG PETER BIETENHOLZ	Recursos PAPIIT	01-01-2019	31-12-2021
3	Materia fuertemente acoplada en condiciones extremas con el MPD-NICA	JOSE ALEJANDRO AYALA MERCADO ELEAZAR CUAUTLE FLORES	Recursos PAPIIT	01-01-2022	31-12-2024
4	Las diferentes fases de la materia fuertemente acoplada en condiciones extremas.	JOSE ALEJANDRO AYALA MERCADO	Recursos CONAHCyT	01-01-2024	30-11-2025

JOSE ALEJANDRO AYALA MERCADO

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Collision energy dependence of the source parameters for primary and secondary pions at nica energies	Tesis de Maestría	JOSE ALEJANDRO AYALA MERCADO,	Bernal Langarica, Santiago,	Instituto de Ciencias Nucleares,	2024
2	Neutral meson measurement at ALICE experiment and phenomenology of hadronic matter created in p+p and Pb+Pb systems	Tesis de Doctorado	JOSE ALEJANDRO AYALA MERCADO,	JOSE RUBEN ALFARO MOLINA, ELEAZAR CUAUTLE FLORES, et al.	Instituto de Ciencias Nucleares, Instituto de Física,	2022
3	Intense magnetic fields, high temperature and density effects on QCD-related phenomena	Tesis de Doctorado	JOSE ALEJANDRO AYALA MERCADO,	SARIRA SAHU, GENARO TOLEDO SANCHEZ, et al.	Instituto de Ciencias Nucleares, Instituto de Física,	2021
4	Neutral pion mass in a magnetized medium	Tesis de Maestría	JOSE ALEJANDRO AYALA MERCADO,	Hernández Hernández, José Luis,	Instituto de Ciencias Nucleares,	2021
5	Velocidad de escape de estrellas de neutrones por emisión anisotrópica de neutrinos derechos	Tesis de Licenciatura	JOSE ALEJANDRO AYALA MERCADO,	Bernal Langarica, Santiago,	Instituto de Ciencias Nucleares,	2021

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6	El punto crítico de la cromodinámica cuántica para sistemas parcialmente termalizados	Tesis de Licenciatura	JOSE ALEJANDRO AYALA MERCADO,	Knapp Pérez, Víctor,	Instituto de Ciencias Nucleares,	2020
7	Efectos de un campo magnético en la tasa de producción del bosón de Higgs mediante fusión de gluones	Tesis de Maestría	JOSE ALEJANDRO AYALA MERCADO,	GABRIELLA PICCINELLI, BOCCHI, ANGEL SANCHEZ CECILIO, et al.	Facultad de Ciencias, Facultad de Estudios Superiores "Aragón", Instituto de Ciencias Nucleares,	2020
8	Descripción del diagrama de fase de QCD a través del modelo sigma lineal acoplado a quarks	Tesis de Licenciatura	JOSE ALEJANDRO AYALA MERCADO,	Flores Gutiérrez, José Antonio,	Instituto de Ciencias Nucleares,	2019
9	Dispersión CP-asimétrica de fermiones durante la transición de fase electrodébil	Tesis de Licenciatura	JOSE ALEJANDRO AYALA MERCADO,	Salinas San Martín, Jordi,	Instituto de Ciencias Nucleares,	2018
10	Condensación de piones en colisiones de iones pesados relativistas con campos magnéticos	Tesis de Licenciatura	JOSE ALEJANDRO AYALA MERCADO,	Mercado Lozano, Pedro Roberto,	Instituto de Ciencias Nucleares,	2017
11	Potencial efectivo de un campo escalar cargado en presencia de campo magnético externo constante	Tesis de Maestría	JOSE ALEJANDRO AYALA MERCADO,	López Flores, Jesús,	Instituto de Ciencias Nucleares,	2014
12	Acoplamientos electromagnéticos de bariones en el Unquenched Quark Model	Tesis de Maestría	JOSE ALEJANDRO AYALA MERCADO,	GENARO TOLEDO SANCHEZ, García Tecocoatzi, Hugo,	Instituto de Ciencias Nucleares, Instituto de Física,	2012
13	Restauración de la simetría en el modelo estándar a temperatura finita con campos magnéticos	Tesis de Doctorado	JOSE ALEJANDRO AYALA MERCADO,	Navarro Estrada, Jorge Luis,	Instituto de Ciencias Nucleares,	2011

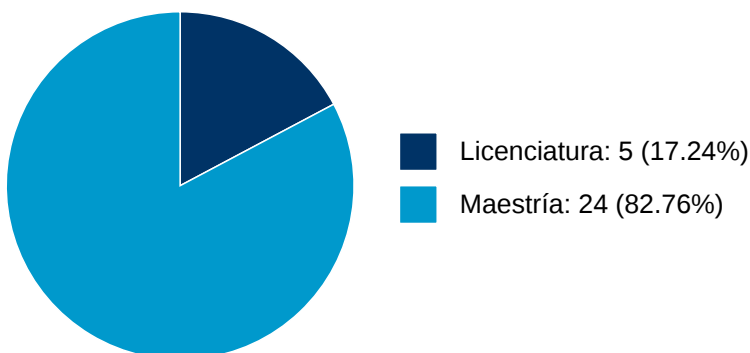
JOSE ALEJANDRO AYALA MERCADO

14	Transición de la fase electrodebil en presencia de campos intermagnéticos	Tesis de Doctorado	JOSE ALEJANDRO AYALA MERCADO,	Sánchez Cecilio, Ángel,	2007
15	Recombinación dinámica de partones en colisiones de iones pesados relativistas	Tesis de Maestría	JOSE ALEJANDRO AYALA MERCADO,	Martínez Guerrero, Mauricio,	2006
16	Espectro transversal de piones para rapidices fuera de la central en colisiones de iones pesados relativistas	Tesis de Licenciatura	JOSE ALEJANDRO AYALA MERCADO,	Robles Silva, Ricardo Hugo,	2004
17	Efectos de expansión hidrodinámica y de frontera en la función de correlación de piones en colisiones de iones pesados relativistas	Tesis de Licenciatura	JOSE ALEJANDRO AYALA MERCADO,	Sánchez Cecilio, Ángel,	2002
18	Bariogénesis electrodebil en el modelo estándar	Tesis de Licenciatura	JOSE ALEJANDRO AYALA MERCADO,	Palladares Prieto, Gabriel,	2001

JOSE ALEJANDRO AYALA MERCADO

DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Nucleares	1	2024-2
2	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Nucleares	1	2024-1
3	Maestría	TEORÍA TÉRMICA DE CAMPOS (F. ALTAS ENERGÍAS, F. NUCLEAR, GRAVITACIÓN Y F. MATEMÁTICA)	Instituto de Ciencias Nucleares	5	2024-1
4	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Nucleares	1	2023-2
5	Maestría	TEORÍA TÉRMICA DE CAMPOS (F. ALTAS ENERGÍAS, F. NUCLEAR, GRAVITACIÓN Y F. MATEMÁTICA)	Instituto de Ciencias Nucleares	4	2022-2
6	Maestría	FÍSICA DE PARTÍCULAS ELEMENTALES (F. DE ALTAS ENERGÍAS, F. NUCLEAR, GRAVITACIÓN Y F. MATEMÁTICA)	Instituto de Ciencias Nucleares	9	2021-2
7	Maestría	TEMAS SELECTOS INTERACCIONES FUERTES II	Instituto de Ciencias Nucleares	2	2020-2
8	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Nucleares	1	2020-2
9	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Nucleares	1	2020-2
10	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Nucleares	1	2020-1

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11	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Nucleares	1	2020-1
12	Maestría	INTERACCIONES FUERTES	Instituto de Ciencias Nucleares	3	2020-1
13	Maestría	TEORIA TERMICA DE CAMPOS	Instituto de Ciencias Nucleares	5	2019-1
14	Licenciatura	TEM.SELEC.FISICA PARTIC.ELEME.II	Facultad de Ciencias	2	2018-1
15	Licenciatura	INTRODUC.FISICA PARTIC.ELEMEN.II	Facultad de Ciencias	6	2016-2
16	Licenciatura	INTRODUC.FISICA PARTIC.ELEMEN.I	Facultad de Ciencias	34	2016-1
17	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Ciencias Nucleares	1	2015-2
18	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Ciencias Nucleares	1	2015-1
19	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	13	2014-2
20	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	72	2013-2
21	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Ciencias Nucleares	1	2013-1
22	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Ciencias Nucleares	1	2012-2
23	Maestría	TEORIA TERMICA DE CAMPOS	Instituto de Ciencias Nucleares	2	2012-2
24	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Ciencias Nucleares	1	2012-2
25	Maestría	MECANICA CUANTICA II	Instituto de Ciencias Nucleares	10	2012-1
26	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Ciencias Nucleares	1	2012-1
27	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Nucleares	8	2011-2
28	Maestría	MECANICA CUANTICA II	Instituto de Ciencias Nucleares	14	2011-1
29	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Nucleares	20	2010-2



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



JOSE ALEJANDRO AYALA MERCADO

PATENTES

No se encuentran registros en la base de datos de patentes asociados a:

JOSE ALEJANDRO AYALA MERCADO

JOSE ALEJANDRO AYALA MERCADO

FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
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	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024