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Coordinación de Planeación, Evaluación y
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Reporte individual



LUIS FERNANDO URRUTIA RIOS

Datos Generales

Nombre: LUIS FERNANDO URRUTIA RIOS

Máximo nivel de estudios: POSDOCTORADO

Antigüedad académica en la UNAM: 43 años

Nombramientos

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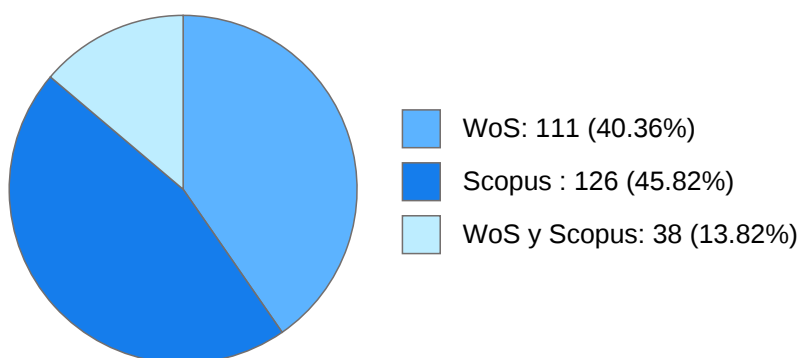
Estímulos, programas, premios y reconocimientos

SNI III - VIGENTE
PRIDE D - 2024
PASPA Estancias Sabáticas 2012 - 2013

LUIS FERNANDO URRUTIA RIOS

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Effective electromagnetic Lagrangians in the derivative expansion method	LUIS FERNANDO URRUTIA RIOS R. Martinez von Dossow	JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL	2025
2	Higher-Order Derivative Corrections to Axion Electrodynamics in 3D Topological Insulators	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS Martínez von Dossow R.	Symmetry-Bas el	2025
3	Lorentz invariance violation and the CPT-odd electromagnetic response of a tilted anisotropic Weyl semimetal	LUIS ANDRES GOMEZ GONZALEZ JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS et al.	PHYSICAL REVIEW D	2024
4	Momentum non-conservation in a scalar quantum field theory with a planar interface	DANIEL GONZALEZ VELAZQUEZ LUIS FERNANDO URRUTIA RIOS R. Martinez von Dossow	EUROPEAN PHYSICAL JOURNAL PLUS	2024
5	Electromagnetic shielding induced by topological surface states	LEONARDO MEDEL ONOFRE JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS	EUROPEAN PHYSICAL JOURNAL PLUS	2023
6	Electromagnetic radiation in chiral matter: The Cherenkov case	MANUEL EDUARDO BARREDO ALAMILLA LUIS FERNANDO URRUTIA RIOS Ferreira M.M. et al.	PHYSICAL REVIEW D	2023

LUIS FERNANDO URRUTIA RIOS

7	Effective electromagnetic actions for Lorentz violating theories exhibiting the axial anomaly	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS Gómez A.	PHYSICS LETTERS B	2022
8	Radiation from a dipole perpendicular to the interface between two planar semi-infinite magnetoelectric media	OMAR JESUS FRANCA SANTIAGO LUIS FERNANDO URRUTIA RIOS	REVISTA MEXICANA DE FISICA	2022
9	Axion Electrodynamics in Magnetoelectric Media	JOSE ALBERTO MARTIN RUIZ MAURO CAMBIASO HARB LUIS FERNANDO URRUTIA RIOS	Topics in Applied Physics	2021
10	The Axial Anomaly in Lorentz Violating Theories: Towards the Electromagnetic Response of Weakly Tilted Weyl Semimetals	LUIS FERNANDO URRUTIA RIOS Andres Gomez	Symmetry-Bas el	2021
11	The magnetoelectric effect due to a semispherical capacitor surrounded by a spherical topologically insulating shell	LUIS FERNANDO URRUTIA RIOS Daniel G. Velazquez	PHYSICA SCRIPTA	2020
12	Magnetic-conductivity effects on electromagnetic propagation in dispersive matter	LUIS FERNANDO URRUTIA RIOS Pedro D. S. Silva Manoel M. Ferreira Jr et al.	PHYSICAL REVIEW D	2020
13	Electromagnetic fields induced by an electric charge near a Weyl semimetal	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS M. Cambiaso	PHYSICAL REVIEW B	2019
14	Exact solution of the Schrödinger equation for a hydrogen atom at the interface between the vacuum and a topologically insulating surface	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS Bonilla D.A.	EUROPEAN PHYSICAL JOURNAL D	2019
15	Reversed electromagnetic Vavilov-Cerenkov radiation in naturally existing magnetoelectric media	OMAR JESUS FRANCA SANTIAGO LUIS FERNANDO URRUTIA RIOS Omar Rodriguez-Tzompantzi	PHYSICAL REVIEW D	2019
16	The magnetoelectric coupling in electrodynamics	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS M. Cambiaso	International Journal Of Modern Physics A	2019
17	Magnetoelectric effect of a conducting sphere near a planar topological insulator	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS Omar Rodriguez-Tzompantzi et al.	PHYSICAL REVIEW A	2019
18	Vector models with spontaneous Lorentz-symmetry breaking	LUIS FERNANDO URRUTIA RIOS Escobar C.A.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2018
19	Interaction of a hydrogenlike ion with a planar topological insulator	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS	PHYSICAL REVIEW A	2018

LUIS FERNANDO URRUTIA RIOS

20	Unitarity and Lee-Wick prescription at one loop level in the effective Myers-Pospelov electrodynamics: The e^+e^- annihilation	LUIS FERNANDO URRUTIA RIOS Reyes, Carlos M.	PHYSICAL REVIEW D	2017
21	Extended Nambu models: Their relation to gauge theories	CARLOS ANDRES ESCOBAR RUIZ LUIS FERNANDO URRUTIA RIOS	International Journal Of Modern Physics A	2017
22	Gravitational waves propagation in nondynamical Chern-Simons gravity	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS	INTERNATIONAL JOURNAL OF MODERN PHYSICS D	2017
23	A Green's function approach to the Casimir effect on topological insulators with planar symmetry	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS Cambiaso, M.	EPL	2016
24	Possible violations of spacetime symmetries	LUIS FERNANDO URRUTIA RIOS	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2016
25	Emergence of Yang Mills theory from the Non-Abelian Nambu Model	CARLOS ANDRES ESCOBAR RUIZ LUIS FERNANDO URRUTIA RIOS	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2016
26	Electro- and magnetostatics of topological insulators as modeled by planar, spherical, and cylindrical ? boundaries: Green's function approach	LUIS FERNANDO URRUTIA RIOS JOSE ALBERTO MARTIN RUIZ Cambiaso M.	PHYSICAL REVIEW D	2016
27	Electromagnetic description of three-dimensional time-reversal invariant ponderable topological insulators	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS Cambiaso, M.	PHYSICAL REVIEW D	2016
28	Conditions for the emergence of gauge bosons from spontaneous Lorentz symmetry breaking	CARLOS ANDRES ESCOBAR RUIZ LUIS FERNANDO URRUTIA RIOS	PHYSICAL REVIEW D	2015
29	Photons emerging as Goldstone bosons from spontaneous Lorentz symmetry breaking: The Abelian Nambu model	CARLOS ANDRES ESCOBAR RUIZ LUIS FERNANDO URRUTIA RIOS	PHYSICAL REVIEW D	2015
30	Analysis of the quantum bouncer using polymer quantization	ALEJANDRO FRANK HOEFELICH LUIS FERNANDO URRUTIA RIOS JOSE ALBERTO MARTIN RUIZ	PHYSICAL REVIEW D	2015

LUIS FERNANDO URRUTIA RIOS

31	Green's function approach to Chern-Simons extended electrodynamics: An effective theory describing topological insulators	LUIS FERNANDO URRUTIA RIOS JOSE ALBERTO MARTIN RUIZ Cambiaso, M.	PHYSICAL REVIEW D	2015
32	An $SU(2) \times SU(2)$ Jaynes-Cummings model with a maximum energy level	ALEJANDRO FRANK HOEFLICH LUIS FERNANDO URRUTIA RIOS JOSE ALBERTO MARTIN RUIZ	PHYSICA SCRIPTA	2014
33	Invariants of the electromagnetic field	C. A. Escobar LUIS FERNANDO URRUTIA RIOS	JOURNAL OF MATHEMATICAL PHYSICS	2014
34	The Goldstone theorem in non-linear electrodynamics	C. A. Escobar LUIS FERNANDO URRUTIA RIOS	EPL	2014
35	Towards an interpretation of spontaneous Lorentz symmetry breaking in modified BF theories	CARLOS ANDRES ESCOBAR RUIZ LUIS FERNANDO URRUTIA RIOS	AIP Conference Proceedings	2014
36	A Five Dimensional Perspective on Many Particles in the Snyder basis of Double Special Relativity	LUIS FERNANDO URRUTIA RIOS Lorenzi J.M. Montemayor R.	AIP Conference Proceedings	2013
37	Emergent electrodynamics from the Nambu model for spontaneous Lorentz symmetry breaking	OMAR JESUS FRANCA SANTIAGO LUIS FERNANDO URRUTIA RIOS Montemayor, R.	PHYSICAL REVIEW D	2012
38	PERTURBATIVE HAMILTONIAN CONSTRAINTS FOR HIGHER-ORDER THEORIES	LUIS FERNANDO URRUTIA RIOS Martinez, S. A. Montemayor, R.	International Journal Of Modern Physics A	2011
39	Relativistic two-body Coulomb-Breit Hamiltonian in an external weak gravitational field	J. A. Caicedo LUIS FERNANDO URRUTIA RIOS	PHYSICS LETTERS B	2011
40	Gauge invariant nonlinear electrodynamics motivated by a spontaneous breaking of the Lorentz symmetry	LUIS FERNANDO URRUTIA RIOS Alfaro, Jorge	PHYSICAL REVIEW D	2010
41	Extended solution space for Chern-Simons gravity: The slowly rotating Kerr black hole	Mauro Cambiaso LUIS FERNANDO URRUTIA RIOS	PHYSICAL REVIEW D	2010
42	Effective electromagnetic interaction potential in flat and curved spacetimes	LUIS FERNANDO URRUTIA RIOS Caicedo J.A.	AIP Conference Proceedings	2010
43	Spontaneous Lorentz symmetry breaking in non-linear electrodynamics	LUIS FERNANDO URRUTIA RIOS	AIP Conference Proceedings	2010
44	An extended Einstein-Cartan formulation of Chern-Simons gravity	LUIS FERNANDO URRUTIA RIOS Cambiaso M.	AIP Conference Proceedings	2010

LUIS FERNANDO URRUTIA RIOS

45	The photon sector in the quantum Myers-Pospelov model: An improved description	C. M. Reyes LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER	PHYSICS LETTERS B	2009
46	An Alternative Canonical Approach to the Ghost Problem in a Complexified Extension of the Pais-Uhlenbeck Oscillator	ALDO DECTOR OLIVER H. A. Morales Tecotl LUIS FERNANDO URRUTIA RIOS et al.	SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS	2009
47	Gravitational modification of the coulomb-breit hamiltonian	LUIS FERNANDO URRUTIA RIOS Caicedo J.A.	AIP Conference Proceedings	2009
48	Dimensional reduction as a method to obtain dual theories for massive spin two in arbitrary dimensions	LUIS FERNANDO URRUTIA RIOS Khoudeir, A. Montemayor, R.	PHYSICAL REVIEW D	2008
49	Duality for massive spin two theories in arbitrary dimensions	B. Gonzalez LUIS FERNANDO URRUTIA RIOS Khoudeir, A. et al.	JOURNAL OF HIGH ENERGY PHYSICS	2008
50	Quantization of the Myers-Pospelov model: The photon sector interacting with standard fermions as a perturbation of QED	C. M. Reyes LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER	PHYSICAL REVIEW D	2008
51	The scalar sector in the Myers-Pospelov model	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER Reyes C.M.	AIP Conference Proceedings	2008
52	Quantization of the Myers-Pospelov model: A progress report	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER Reyes C.M.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2007
53	Phenomenological description of quantum gravity inspired modified classical electrodynamics	LUIS FERNANDO URRUTIA RIOS Montemayor R.	GENERAL RELATIVITY AND GRAVITATION	2007
54	Quantum gravity phenomenology	LUIS FERNANDO URRUTIA RIOS Morales-Técotl H.A.	AIP Conference Proceedings	2006
55	Reality and causality in quantum gravity modified electrodynamics	LUIS FERNANDO URRUTIA RIOS Martínez S.A. Montemayor R.	PHYSICAL REVIEW D	2006
56	Corrections to flat-space particle dynamics arising from space granularity	LUIS FERNANDO URRUTIA RIOS	Lecture Notes in Physics	2006
57	AIP Conference Proceedings: Preface	LUIS FERNANDO URRUTIA RIOS Pérez M.A. Villaseñor L.	AIP Conference Proceedings	2006
58	Radiation in Lorentz violating electrodynamics	LUIS FERNANDO URRUTIA RIOS Montemayor R.	AIP Conference Proceedings	2005

LUIS FERNANDO URRUTIA RIOS

59	Synchrotron radiation in Lorentz-violating electrodynamics: The Myers-Pospelov model	LUIS FERNANDO URRUTIA RIOS Montemayor R.	PHYSICAL REVIEW D	2005
60	Lorentz violating electrodynamics	LUIS FERNANDO URRUTIA RIOS González B. Martínez S.A. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2005
61	Synchrotron radiation in Myers-Pospelov effective electrodynamics	LUIS FERNANDO URRUTIA RIOS Montemayor R.	PHYSICS LETTERS B	2005
62	Lorentz invariance and quantum gravity: An additional fine-tuning problem?	DANIEL EDUARDO SUDARSKY SAIONZ LUIS FERNANDO URRUTIA RIOS Collins J. et al.	PHYSICAL REVIEW LETTERS	2004
63	Alternative approaches to Lorentz violation invariance in loop quantum gravity inspired models	LUIS FERNANDO URRUTIA RIOS Alfaro J. Morales-Técotl H.A. et al.	PHYSICAL REVIEW D	2004
64	Duality for symmetric second rank tensors. II. The linearized gravitational field	LUIS FERNANDO URRUTIA RIOS Casini H. Montemayor R.	PHYSICAL REVIEW D	2003
65	On non-Abelian holonomies	LUIS FERNANDO URRUTIA RIOS Alfaro J. Morales-Técotl H.A. et al.	J PHYS A-MATH GEN	2003
66	Bounds on stringy quantum gravity from low energy existing data	DANIEL EDUARDO SUDARSKY SAIONZ LUIS FERNANDO URRUTIA RIOS Vucetich H.	PHYSICAL REVIEW D	2003
67	Duality for symmetric second rank tensors: The massive case	LUIS FERNANDO URRUTIA RIOS H Casini R Montemayor	PHYSICAL REVIEW D	2002
68	Observational bounds on quantum gravity signals using existing data	DANIEL EDUARDO SUDARSKY SAIONZ LUIS FERNANDO URRUTIA RIOS Vucetich H.	PHYSICAL REVIEW LETTERS	2002
69	Loop quantum gravity and light propagation	LUIS FERNANDO URRUTIA RIOS Alfaro J. Morales-Técotl H.A.	PHYSICAL REVIEW D	2002
70	Quantum gravity corrections to particle interactions	LUIS FERNANDO URRUTIA RIOS	MODERN PHYSICS LETTERS A	2002
71	Quantum gravity and spin-1/2 particle effective dynamics	LUIS FERNANDO URRUTIA RIOS Alfaro J. Morales-Técotl H.A.	PHYSICAL REVIEW D	2002
72	Dual theories for mixed symmetry fields. Spin-two case: (1, 1) versus (2, 1) young symmetry type fields	LUIS FERNANDO URRUTIA RIOS Casini H. Montemayor R.	PHYSICS LETTERS B	2001
73	Exact solution of the Schwinger model with compact U(1)	LUIS FERNANDO URRUTIA RIOS Linares R. David Vergara J.	MODERN PHYSICS LETTERS A	2001
74	Hamiltonian LGT in the complete fourier analysis basis	LUIS FERNANDO URRUTIA RIOS Burgio G. De Pietri R. et al.	NUCL PHYS B-PROC SUP	2000

LUIS FERNANDO URRUTIA RIOS

75	The basis of the physical Hilbert space of lattice gauge theories	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER Burgio G. et al.	NUCLEAR PHYSICS B	2000
76	Quantum gravity corrections to neutrino propagation	LUIS FERNANDO URRUTIA RIOS	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2000
77	Doubly compacted schwinger model	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER Linares R.	36TH INTERNATIONAL COSMIC RAY CONFERENCE, ICRC2019	2000
78	Quantum Gravity Corrections to Neutrino Propagation	LUIS FERNANDO URRUTIA RIOS Alfaro J. Morales-Técotl H.A.	PHYSICAL REVIEW LETTERS	2000
79	Neutrinos in a gravitational background: A test for the universality of the gravitational interaction	JUAN CARLOS D'OLIVO SAEZ LUIS FERNANDO URRUTIA RIOS Casini H. et al.	PHYSICAL REVIEW D	1999
80	Complex canonical gravity and reality constraints	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER Montesinos M. et al.	GENERAL RELATIVITY AND GRAVITATION	1999
81	Quantum description of the orientational degrees of freedom in a biaxial nematic liquid	LUIS FERNANDO URRUTIA RIOS Alfaro J. Cubero O.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	1999
82	Loop variables for compact two-dimensional quantum electrodynamics	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER Gambini R. et al.	PHYSICAL REVIEW D	1998
83	The itzykson-zuber integral for $U(m n)$	LUIS FERNANDO URRUTIA RIOS Alfaro J. Medina R.	Surveys in High Energy Physics	1997
84	Orthogonality relations and supercharacter formulas of $U(m n)$ representations	LUIS FERNANDO URRUTIA RIOS Alfaro J. Medina R.	JOURNAL OF MATHEMATICAL PHYSICS	1997
85	Reality conditions for Ashtekar variables as Dirac constraints	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER Morales-Técotl H.A.	CLASSICAL AND QUANTUM GRAVITY	1996
86	BRST-BFV quantization and the schwinger action principle	JOSE ANTONIO RAFAEL GARCIA ZENTENO JOSE DAVID VERGARA OLIVER LUIS FERNANDO URRUTIA RIOS	International Journal Of Modern Physics A	1996

LUIS FERNANDO URRUTIA RIOS

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88	The orthogonality relations for the supergroup $U(m n)$	LUIS FERNANDO URRUTIA RIOS Alfaro J. Medina R.	J PHYS A-MATH GEN	1995
89	BRST-BFV method for nonstationary systems	JOSE DAVID VERGARA OLIVER LUIS FERNANDO URRUTIA RIOS García J.A.	PHYSICAL REVIEW D	1995
90	The equivalence between the Mandelstam and the Cayley-Hamilton identities	LUIS FERNANDO URRUTIA RIOS Berenstein D.E.	JOURNAL OF MATHEMATICAL PHYSICS	1994
91	The Cayley-Hamilton theorem for supermatrices	LUIS FERNANDO URRUTIA RIOS Morales N.	J PHYS A-MATH GEN	1994
92	An extension of the Cayley-Hamilton theorem to the case of supermatrices	LUIS FERNANDO URRUTIA RIOS Morales N.	LETTERS IN MATHEMATICAL PHYSICS	1994
93	The Cayley-Hamilton theorem for supermatrices	LUIS FERNANDO URRUTIA RIOS Morales N.	J PHYS A-MATH GEN	1993
94	Anomalies in the Fujikawa method using parameter-dependent regulators	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER	PHYSICAL REVIEW D	1992
95	The Poincare limit in 2+1 dimensional quantum de Sitter gravity	LUIS FERNANDO URRUTIA RIOS FEDERICO ZERTUCHE MONES	CLASSICAL AND QUANTUM GRAVITY	1992
96	Consistent coupling of the gravitino field to a gravitational background with torsion	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER	PHYSICAL REVIEW D	1991
97	The algebra of traces for conformal gravity in 2+1 dimensions	FEDERICO ZERTUCHE MONES LUIS FERNANDO URRUTIA RIOS	PHYSICS LETTERS B	1991
98	Soluble extensions of the Dirac oscillator with exact and broken supersymmetry	OCTAVIO HECTOR CASTAÑOS GARZA ALEJANDRO FRANK HOEFELICH LUIS FERNANDO URRUTIA RIOS et al.	PHYSICAL REVIEW D	1991
99	Local supersymmetry in nonrelativistic systems	LUIS FERNANDO URRUTIA RIOS Zanelli J.	JOURNAL OF MATHEMATICAL PHYSICS	1990
100	Extended definition of the regulated jacobian in the path integral calculation of anomalies	LUIS FERNANDO URRUTIA RIOS JOSE DAVID VERGARA OLIVER Alfaro J.	PHYSICS LETTERS B	1988
101	Comments on 'Simple supersymmetry: I. Basic examples'	LUIS FERNANDO URRUTIA RIOS	EUROPEAN JOURNAL OF PHYSICS	1987
102	Kasner-type cosmological solutions in $N=1$ supergravity	MARCOS ROSENBAUM PITLUCK LUIS FERNANDO URRUTIA RIOS Ryan M.	CLASSICAL AND QUANTUM GRAVITY	1987

LUIS FERNANDO URRUTIA RIOS

103	Singularities in Kaluza-Klein-Friedmann cosmological models	MARCOS ROSENBAUM PITLUCK LUIS FERNANDO URRUTIA RIOS Ryan M. et al.	PHYSICAL REVIEW D	1987
104	Colliding plane waves in N=1 classical supergravity	MARCOS ROSENBAUM PITLUCK LUIS FERNANDO URRUTIA RIOS Ryan M. et al.	PHYSICAL REVIEW D	1986
105	Supersymmetric embedding of arbitrary n-dimensional scalar hamiltonians	OCTAVIO HECTOR CASTAÑOS GARZA JUAN CARLOS D'OLIVO SAEZ LUIS FERNANDO URRUTIA RIOS et al.	PHYSICS LETTERS B	1986
106	Null fermio-dynamics in superspace: Abelian and non-abelian 3d massive vector fields	LUIS FERNANDO URRUTIA RIOS Aragone C.	J PHYS A-MATH GEN	1986
107	Propagator for the anisotropic three-dimensional charged harmonic oscillator in a constant magnetic field using the Schwinger action principle	LUIS FERNANDO URRUTIA RIOS Manterola C.	INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS	1986
108	Study of a three-dimensional quantum-mechanical supersymmetric model with nucleon-nucleon-type interaction	JUAN CARLOS D'OLIVO SAEZ LUIS FERNANDO URRUTIA RIOS FEDERICO ZERTUCHE MONES	PHYSICAL REVIEW D	1985
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110	Comments on "naive inquiries into supersymmetry"	LUIS FERNANDO URRUTIA RIOS Montemayor R.	PHYSICAL REVIEW D	1984
111	Calculation of the propagator for a time-dependent damped, forced harmonic oscillator using the Schwinger action principle	LUIS FERNANDO URRUTIA RIOS Hernández E.	INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS	1984
112	Ladder operators in the Morse potential obtained from a related harmonic oscillator	LUIS FERNANDO URRUTIA RIOS Montemayor R.	AMERICAN JOURNAL OF PHYSICS	1983
113	Long-range behavior of nuclear forces as a manifestation of supersymmetry in nature	LUIS FERNANDO URRUTIA RIOS Hernandez E.	PHYSICAL REVIEW LETTERS	1983
114	Dynamical torsion in a gravitational theory coupled to first-order twist-tensor matter fields	MARCOS ROSENBAUM PITLUCK LUIS FERNANDO URRUTIA RIOS Ryan Jr. M.P. et al.	PHYSICAL REVIEW D	1982
115	Comments on "physical consequences of the choice of the lagrangian"	LUIS FERNANDO URRUTIA RIOS Hojman S.A.	PHYSICAL REVIEW D	1982
116	On the inverse problem of the calculus of variations	LUIS FERNANDO URRUTIA RIOS Hojman S.	JOURNAL OF MATHEMATICAL PHYSICS	1981

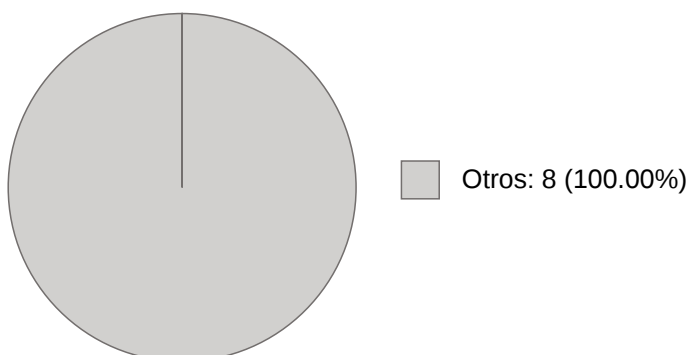
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117	A new exact solution of classical supergravity	LUIS FERNANDO URRUTIA RIOS	PHYSICS LETTERS B	1981
118	Further discussion of the ansatz $\mu = d^2t$ for an exact solution of the helicity 3 2 field in classical supergravity	LUIS FERNANDO URRUTIA RIOS	PHYSICS LETTERS B	1981
119	Constructive approach to supergravity	LUIS FERNANDO URRUTIA RIOS Milton K.A. Finkelstein R.J.	GENERAL RELATIVITY AND GRAVITATION	1980
120	An example of the no-hair conjecture in supergravity	LUIS FERNANDO URRUTIA RIOS	PHYSICS LETTERS B	1979
121	Anomalous spectral regions in source theory	LUIS FERNANDO URRUTIA RIOS Ivanetich R.J. Tsai W.-Y. et al.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	1979
122	Leptonic and radiative meson decays: A phenomenological broken symmetry approach	LUIS FERNANDO URRUTIA RIOS	PHYSICAL REVIEW D	1978
123	Zeroth-order eikonal approximation in relativistic charged-particle-magnetic-monopole scattering	LUIS FERNANDO URRUTIA RIOS	PHYSICAL REVIEW D	1978
124	Vacuum polarization in parallel homogeneous electric and magnetic fields	LUIS FERNANDO URRUTIA RIOS	PHYSICAL REVIEW D	1978
125	Tests of neutral-current models in elastic neutrino scattering	LUIS FERNANDO URRUTIA RIOS Sakurai J.J.	PHYSICAL REVIEW D	1975
126	Fit to the pion electromagnetic form factor	LUIS FERNANDO URRUTIA RIOS	PHYSICAL REVIEW D	1974

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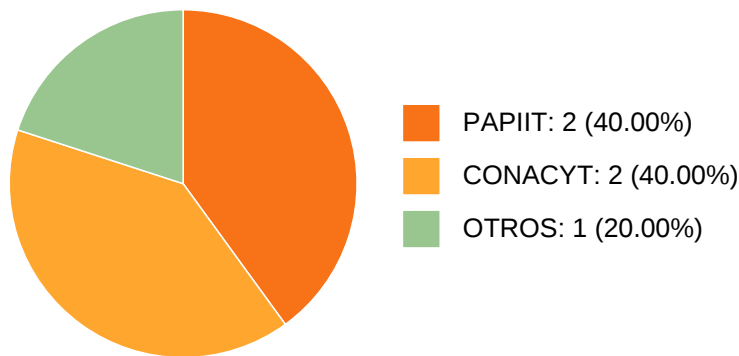


#	Título	Autores	Alcance	Año	ISBN
1	Cherenkov Radiation in Chiral Media	MANUEL EDUARDO BARREDO ALAMILLA LUIS FERNANDO URRUTIA RIOS Lehnert R.	Conferenc e Paper	2023	9789811275388
2	LIV in Matter	LUIS FERNANDO URRUTIA RIOS Lehnert R.	Conferenc e Paper	2023	9789811275388
3	Emergence of Gauge Invariance from Nambu Models	LUIS FERNANDO URRUTIA RIOS VA Kosteletsky	Proceedin gs Paper	2017	9789813148505
4	Lorentz-Invariance Violation with Higher-Order Operators	LUIS FERNANDO URRUTIA RIOS Carlos M. Reyes VA Kosteletsky	Proceedin gs Paper	2017	9789813148505
5	Emergence of Gauge Invariance from Nambu Models	LUIS FERNANDO URRUTIA RIOS Kosteletsky V.A.	Conferenc e Paper	2017	9789813148499
6	Lorentz-Invariance Violation with Higher-Order Operators	LUIS FERNANDO URRUTIA RIOS Reyes C.M. Kosteletsky V.A.	Conferenc e Paper	2017	9789813148499
7	Slowly rotating kerr black hole as a solution of Einstein-Cartan gravity extended by a Chern-Simons term	LUIS FERNANDO URRUTIA RIOS Cambiaso M.	Conferenc e Paper	2011	9814327670
8	Spontaneous Lorentz symmetry breaking in nonlinear electrodynamics	LUIS FERNANDO URRUTIA RIOS	Conferenc e Paper	2011	9814327670

LUIS FERNANDO URRUTIA RIOS

PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

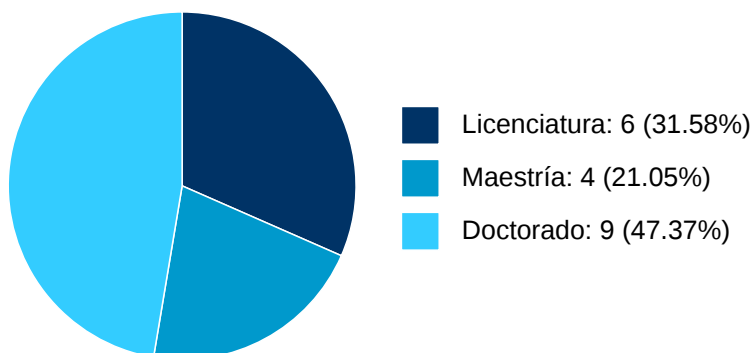


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Teorías de campo efectivas en partículas y gravitación II.	LUIS FERNANDO URRUTIA RIOS	Recursos CONACYT	15-05-2015	14-05-2018
2	Acoplamiento de invariantes topológicos en teorías de norma y gravitación.	LUIS FERNANDO URRUTIA RIOS	Recursos PAPIIT	01-01-2019	31-12-2021
3	Teorías de campo efectivas en partículas y gravitación II proyecto 237503	LUIS FERNANDO URRUTIA RIOS	Recursos CONACYT	15-05-2016	14-08-2019
4	Materia cuántica topológica y magnetoeléctricos: de la física de materia condensada a la física de altas energías.	LUIS FERNANDO URRUTIA RIOS JOSE EDUARDO BARRIOS VARGAS	Recursos CONAHCyT	20-10-2020	03-03-2025
5	Fases topológicas de la materia: transporte y teorías de campo efectivas	JOSE ALBERTO MARTIN RUIZ LUIS FERNANDO URRUTIA RIOS	Recursos PAPIIT	01-01-2024	31-12-2026

LUIS FERNANDO URRUTIA RIOS

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Relación entre las probabilidades de oscilación en materia de Ve y Ve para el caso de tres sabores	Tesis de Maestría	MARIA CATALINA ESPINOZA HERNANDEZ,	LUIS FERNANDO URRUTIA RIOS, Juárez Mansilla, Carlos Leonardo,	Facultad de Ciencias, Instituto de Ciencias Nucleares,	2022
2	Radiation in chiral media	Tesis de Maestría	LUIS FERNANDO URRUTIA RIOS,	Barredo Alamilla, Manuel Eduardo,	Instituto de Ciencias Nucleares,	2022
3	Topological insulators : quantum phenomena of the effective theory	Tesis de Licenciatura	LUIS FERNANDO URRUTIA RIOS,	Gómez Arias, Andrés,	Instituto de Ciencias Nucleares,	2021
4	Low energy electroweak precision constraints	Tesis de Doctorado	SAUL NOE RAMOS SANCHEZ,	LUIS FERNANDO URRUTIA RIOS, Ferro Hernández, Rodolfo,	Instituto de Ciencias Nucleares, Instituto de Física,	2020
5	Efecto magnetoeléctrico de un condensador semiesférico rodeado por un aislante topológico	Tesis de Licenciatura	LUIS FERNANDO URRUTIA RIOS,	González Velázquez, Daniel,	Instituto de Ciencias Nucleares,	2020

LUIS FERNANDO URRUTIA RIOS

6	Radiación en theta-electrodinámica	Tesis de Doctorado	LUIS FERNANDO URRUTIA RIOS,	Franca Santiago, Omar Jesús,	Instituto de Ciencias Nucleares,	2019
7	Soluciones clásicas de teorías de Yang-Mills con acoplamiento al invariante de Chern-Pontryagin	Tesis de Licenciatura	LUIS FERNANDO URRUTIA RIOS,	Condes Luna, Gabriel Efraín,	Instituto de Ciencias Nucleares,	2018
8	Problemas clásicos y cuánticos en electrodinámica Theta	Tesis de Maestría	LUIS FERNANDO URRUTIA RIOS,	Bonilla Moreno, Daniel Alejandro,	Instituto de Ciencias Nucleares,	2017
9	Electrodinámica y gravedad de Chern-Simons	Tesis de Doctorado	MANUEL TORRES LABANSAT,	LUIS FERNANDO URRUTIA RIOS, Martín Ruiz, Alberto,	Instituto de Ciencias Nucleares, Instituto de Física,	2016
10	Rompimiento espontáneo de simetrías espacio temporales	Tesis de Doctorado	LUIS FERNANDO URRUTIA RIOS,	Escobar Ruiz, Carlos Andrés,	Instituto de Ciencias Nucleares,	2015
11	El modelo de Nambu y su relación con la electrodinámica en la norma $A_\mu A_\mu \sim ?^2$	Tesis de Licenciatura	LUIS FERNANDO URRUTIA RIOS,	Franca Santiago, Omar Jesús,	Instituto de Ciencias Nucleares,	2012
12	Measurement of the transverse sphericity in minimum Bias proton-proton collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV with Alice at the LHC	Tesis de Doctorado	ELEAZAR CUAUTLE FLORES,	GUY PAIC, LUIS FERNANDO URRUTIA RIOS, et al.	Instituto de Ciencias Nucleares,	2011
13	Análisis holográfico de la dinámica de la cuerda en AdS5	Tesis de Maestría	JOSE ANTONIO RAFAEL GARCIA ZENTENO,	LUIS FERNANDO URRUTIA RIOS, JOSE DAVID VERGARA OLIVER, et al.	Instituto de Ciencias Nucleares,	2011
14	Un modelo esquemático de cuarks y gluones constituyentes	Tesis de Doctorado	PETER OTTO HESS BECHSTEDT,	LUIS FERNANDO URRUTIA RIOS, Lerma Hernández, Sergio Adrián,		2003

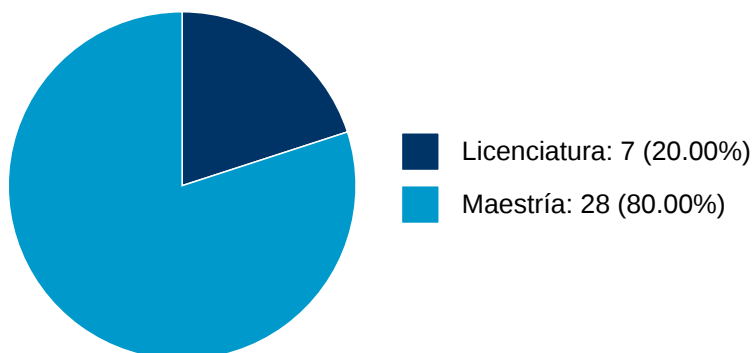
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15	Metodos hamiltonianos en campos y sistemas	Tesis de Doctorado	LUIS FERNANDO URRUTIA RIOS,	JOSE DAVID VERGARA OLIVER, Linares Romero, Roman,	2001
16	Cuantizacion de sistemas con constricciones	Tesis de Doctorado	LUIS FERNANDO URRUTIA RIOS,	JOSE DAVID VERGARA OLIVER, García Zenteno, José Antonio,	1996
17	Anomalías en teoría cuántica de campos	Tesis de Doctorado	LUIS FERNANDO URRUTIA RIOS,	Vergara Oliver, José David,	1989
18	Interpretacion mediante teoria de fuentes de las ecuaciones de campo definidas en un algebra de trassmann	Tesis de Licenciatura	LUIS FERNANDO URRUTIA RIOS,	Albarran Arreguin, Jaime,	1985
19	Principio variacional de schwinger y super-simetria en mecanica cuantica	Tesis de Licenciatura	LUIS FERNANDO URRUTIA RIOS,	Hernandez Perez, Eduardo Antonio,	1983

LUIS FERNANDO URRUTIA RIOS

DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	TEM.SELEC.FISICA PARTIC.ELEME.III	Facultad de Ciencias	4	2024-1
2	Licenciatura	TEM.SELEC.FISICA PARTIC.ELEME.II	Facultad de Ciencias	16	2023-2
3	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Nucleares	1	2023-1
4	Maestría	ELECTRODINÁMICA CLÁSICA I	Instituto de Ciencias Nucleares	5	2023-1
5	Licenciatura	ELECTROMAGNETISMO II	Facultad de Ciencias	42	2023-1
6	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Nucleares	1	2022-2
7	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Físicas	1	2022-1
8	Maestría	MECÁNICA CUÁNTICA I	Instituto de Ciencias Nucleares	10	2022-1
9	Maestría	TEMAS SELECTOS INTRODUCCIÓN A LAS FASES TOPOLÓGICAS DE LA MATERIA	Instituto de Ciencias Nucleares	5	2021-2
10	Maestría	ELECTRODINÁMICA CLÁSICA I	Instituto de Ciencias Nucleares	14	2021-2
11	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Nucleares	1	2021-2
12	Licenciatura	MECANICA CUANTICA	Facultad de Ciencias	16	2020-1
13	Licenciatura	ELECTROMAGNETISMO II	Facultad de Ciencias	15	2019-1
14	Maestría	MECANICA CUANTICA II	Instituto de Ciencias Nucleares	6	2018-2

LUIS FERNANDO URRUTIA RIOS

15	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Nucleares	3	2018-1
16	Maestría	SEMINARIO DE INVESTIGACION II-394312	Instituto de Ciencias Nucleares	1	2017-1
17	Licenciatura	ELECTROMAGNETISMO II	Facultad de Ciencias	14	2017-1
18	Licenciatura	ELECTROMAGNETISMO II	Facultad de Ciencias	16	2016-2
19	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Ciencias Nucleares	1	2016-2
20	Maestría	MECANICA CUANTICA II	Centro de Ciencias Aplicadas y Desarrollo Tecnológico	7	2016-1
21	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Nucleares	18	2015-2
22	Maestría	MECANICA CUANTICA II	Instituto de Ciencias Nucleares	11	2015-1
23	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Nucleares	12	2014-2
24	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Ciencias Nucleares	1	2014-1
25	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Física	1	2013-2
26	Maestría	MECANICA CUANTICA II	Instituto de Ciencias Nucleares	10	2012-2
27	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Nucleares	1	2012-2
28	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Nucleares	10	2012-1
29	Maestría	MECANICA CUANTICA II	Instituto de Ciencias Nucleares	15	2011-2
30	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Ciencias Nucleares	1	2011-2
31	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Nucleares	13	2011-1
32	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Ciencias Nucleares	1	2011-1
33	Maestría	MECANICA CUANTICA	Instituto de Ciencias Nucleares	12	2009-2
34	Maestría	ELECTRODINAMICA CLASICA	Instituto de Ciencias Nucleares	13	2008-2
35	Maestría	ELECTRODINAMICA CLASICA	Instituto de Ciencias Nucleares	1	2008-1



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



LUIS FERNANDO URRUTIA RIOS

PATENTES

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

LUIS FERNANDO URRUTIA RIOS

LUIS FERNANDO URRUTIA RIOS

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