SERGIO ADRIAN LERMA HERNANDEZ

Datos Generales

Nombre: SERGIO ADRIAN LERMA HERNANDEZ

Máximo nivel de estudios: LICENCIATURA

Antigüedad académica en la UNAM: 0 años, 1 mes, 13 días

Nombramientos

Último: AYUDANTE PROFESOR B TP No Definitivo
Facultad de Ciencias
Desde 16-01-2008 hasta 28-02-2008

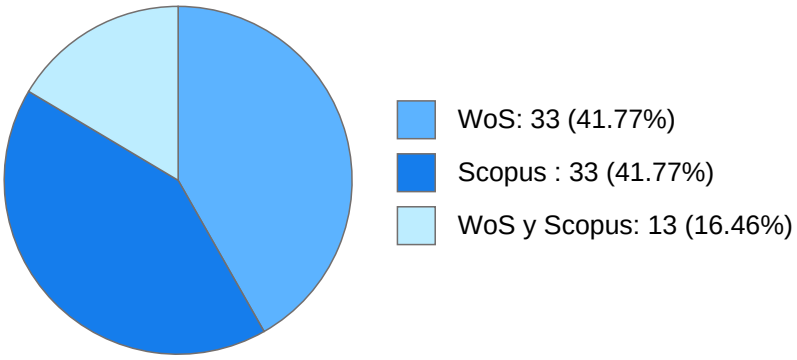
Estímulos, programas, premios y reconocimientos

SNI II 2020 - 2023
SNI I 2011 - 2019

SERGIO ADRIAN LERMA HERNANDEZ

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Resonance assisted tunneling in Floquet spin-J systems	JESUS ALFONSO SEGURA LANDA SERGIO ADRIAN LERMA HERNANDEZ JORGE GUSTAVO HIRSCH GANIEVICH et al.	PHYSICAL REVIEW E	2026
2	Resonant fragility and nonresonant robustness of Floquet eigenstates in kicked spin systems	JESUS ALFONSO SEGURA LANDA DANIEL JULIAN NADER SERGIO ADRIAN LERMA HERNANDEZ et al.	PHYSICAL REVIEW E	2026
3	Persistent revivals in a system of trapped bosonic atoms	SERGIO ADRIAN LERMA HERNANDEZ JORGE GUSTAVO HIRSCH GANIEVICH Diaz-Mejia C. et al.	PHYSICS LETTERS A	2024
4	Chaos and Thermalization in the Spin-Boson Dicke Model	SAUL PILATOWSKY CAMEO MIGUEL ANGEL BASTARRACHEA MAGNANI SERGIO ADRIAN LERMA HERNANDEZ et al.	ENTROPY	2023
5	Identification of quantum scars via phase-space localization measures	SAUL PILATOWSKY CAMEO DAVID VILLASEÑOR RAMOS MIGUEL ANGEL BASTARRACHEA MAGNANI et al.	Quantum	2022
6	Effective dimensions of infinite-dimensional Hilbert spaces: A phase-space approach	SAUL PILATOWSKY CAMEO DAVID VILLASEÑOR RAMOS MIGUEL ANGEL BASTARRACHEA MAGNANI et al.	PHYSICAL REVIEW E	2022

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7	Avoided crossings and dynamical tunneling close to excited-state quantum phase transitions	DANIEL JULIAN NADER CARLOS ALBERTO GONZALEZ RODRIGUEZ SERGIO ADRIAN LERMA HERNANDEZ	PHYSICAL REVIEW E	2021
8	Ubiquitous quantum scarring does not prevent ergodicity	SAUL PILATOWSKY CAMEO MIGUEL ANGEL BASTARRACHEA MAGNANI SERGIO ADRIAN LERMA HERNANDEZ et al.	NATURE COMMUNICATIONS	2021
9	Quantum scarring in a spin-boson system: fundamental families of periodic orbits	SAUL PILATOWSKY CAMEO DAVID VILLASEÑOR RAMOS MIGUEL ANGEL BASTARRACHEA MAGNANI et al.	NEW JOURNAL OF PHYSICS	2021
10	Quantum localization measures in phase space	SAUL PILATOWSKY CAMEO MIGUEL ANGEL BASTARRACHEA MAGNANI SERGIO ADRIAN LERMA HERNANDEZ et al.	PHYSICAL REVIEW E	2021
11	Integrable model of topological SO(5) superfluidity	SERGIO ADRIAN LERMA HERNANDEZ Holdhusen W.J. Dukelsky J. et al.	PHYSICAL REVIEW B	2021
12	Quantum aspects of evolution: A contribution towards evolutionary explorations of genotype networks via quantum walks: Quantum aspects of evolution: A contribution towards evolutionary explorations of genotype networks via quantum walks	SERGIO ADRIAN LERMA HERNANDEZ Santiago-Alarcon D. Tapia-Mcclung H. et al.	JOURNAL OF THE ROYAL SOCIETY INTERFACE	2020
13	Trigonometric SU(N) Richardson-Gaudin models and dissipative multi-level atomic systems	SERGIO ADRIAN LERMA HERNANDEZ Rubio-García A. Dukelsky J.	JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL	2020
14	Positive quantum Lyapunov exponents in experimental systems with a regular classical limit	JORGE CHAVEZ CARLOS MIGUEL ANGEL BASTARRACHEA MAGNANI SERGIO ADRIAN LERMA HERNANDEZ et al.	PHYSICAL REVIEW E	2020
15	Quantum vs classical dynamics in a spin-boson system: manifestations of spectral correlations and scarring	SAUL PILATOWSKY CAMEO MIGUEL ANGEL BASTARRACHEA MAGNANI SERGIO ADRIAN LERMA HERNANDEZ et al.	NEW JOURNAL OF PHYSICS	2020
16	Quantum chaos in a system with high degree of symmetries	SERGIO ADRIAN LERMA HERNANDEZ JORGE GUSTAVO HIRSCH GANIEVICH Javier de la Cruz	PHYSICAL REVIEW E	2020
17	Quantum and Classical Lyapunov Exponents in Atom-Field Interaction Systems	JORGE CHAVEZ CARLOS MIGUEL ANGEL BASTARRACHEA MAGNANI SERGIO ADRIAN LERMA HERNANDEZ et al.	PHYSICAL REVIEW LETTERS	2019

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18	Dynamical signatures of quantum chaos and relaxation time scales in a spin-boson system	SERGIO ADRIAN LERMA HERNANDEZ MIGUEL ANGEL BASTARRACHEA MAGNANI JORGE GUSTAVO HIRSCH GANIEVICH et al.	PHYSICAL REVIEW E	2019
19	Integrable model of a p-wave bosonic superfluid	SERGIO ADRIAN LERMA HERNANDEZ Ortiz G. Dukelsky J.	Physical Review Research	2019
20	Dynamics of Coherent States in Regular and Chaotic Regimes of the Non-Integrable Dicke Model	SERGIO ADRIAN LERMA HERNANDEZ JORGE CHAVEZ CARLOS MIGUEL ANGEL BASTARRACHEA MAGNANI et al.	AIP Conference Proceedings	2018
21	Analytical description of the survival probability of coherent states in regular regimes	SERGIO ADRIAN LERMA HERNANDEZ JORGE CHAVEZ CARLOS MIGUEL ANGEL BASTARRACHEA MAGNANI et al.	JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL	2018
22	Regularity and chaos in cavity QED	MIGUEL ANGEL BASTARRACHEA MAGNANI JORGE CHAVEZ CARLOS SERGIO ADRIAN LERMA HERNANDEZ et al.	PHYSICA SCRIPTA	2017
23	Adiabatic invariants for the regular region of the Dicke model	MIGUEL ANGEL BASTARRACHEA MAGNANI SERGIO ADRIAN LERMA HERNANDEZ JORGE CHAVEZ CARLOS et al.	JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL	2017
24	Electromagnetic properties in Dy160-170 nuclei: A microscopic description by the pseudo-SU(3) shell model	VICTOR MANUEL VELAZQUEZ AGUILAR SERGIO ADRIAN LERMA HERNANDEZ Vargas, Carlos E. et al.	EUROPEAN PHYSICAL JOURNAL A	2017
25	Approximated integrability of the Dicke model	MIGUEL ANGEL BASTARRACHEA MAGNANI SERGIO ADRIAN LERMA HERNANDEZ Relano, A.	EPL	2016
26	Classical chaos in atom-field systems	JORGE CHAVEZ CARLOS MIGUEL ANGEL BASTARRACHEA MAGNANI JORGE GUSTAVO HIRSCH GANIEVICH et al.	PHYSICAL REVIEW E	2016
27	Delocalization and quantum chaos in atom-field systems	MIGUEL ANGEL BASTARRACHEA MAGNANI JORGE CHAVEZ CARLOS JORGE GUSTAVO HIRSCH GANIEVICH et al.	PHYSICAL REVIEW E	2016
28	Thermal and quantum phase transitions in atom-field systems: A microcanonical analysis	MIGUEL ANGEL BASTARRACHEA MAGNANI JORGE GUSTAVO HIRSCH GANIEVICH SERGIO ADRIAN LERMA HERNANDEZ	JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT	2016

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29	Chaos in the Dicke model: Quantum and semiclassical analysis	Miguel Angel BastarracheaMagnani JORGE GUSTAVO HIRSCH GANIEVICH SERGIO ADRIAN LERMA HERNANDEZ et al.	PHYSICA SCRIPTA	2015
30	Comparative quantum and semiclassical analysis of atom-field systems. II. Chaos and regularity	MIGUEL ANGEL BASTARRACHEA MAGNANI JORGE GUSTAVO HIRSCH GANIEVICH SERGIO ADRIAN LERMA HERNANDEZ	PHYSICAL REVIEW A	2014
31	Comparative quantum and semiclassical analysis of atom-field systems. I. Density of states and excited-state quantum phase transitions	MIGUEL ANGEL BASTARRACHEA MAGNANI JORGE GUSTAVO HIRSCH GANIEVICH SERGIO ADRIAN LERMA HERNANDEZ	PHYSICAL REVIEW A	2014
32	The Lipkin-Meshkov-Glick model from the perspective of the SU(1,1) Richardson-Gaudin models	SERGIO ADRIAN LERMA HERNANDEZ Dukelsky J.	GIREP-EPEC 2025 CONFERENCE	2014
33	New realizations of the Richardson-Gaudin models in nuclear physics: The hyperbolic model	SERGIO ADRIAN LERMA HERNANDEZ Dukelsky J.	AIP Conference Proceedings	2012

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LIBROS Y CAPITULOS CON ISBN

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

SERGIO ADRIAN LERMA HERNANDEZ

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PARTICIPACIÓN EN PROYECTOS

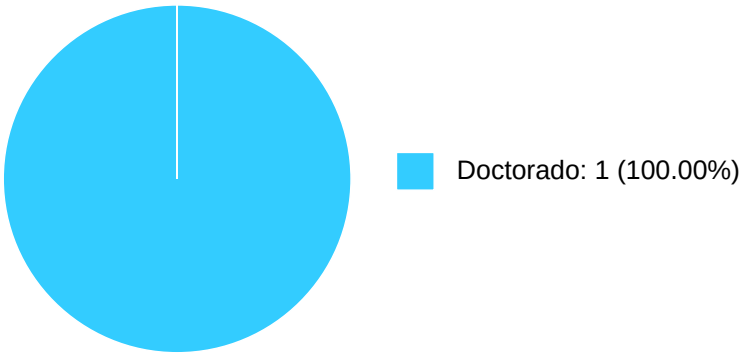
No se encuentran registros en la base de datos de SISEPRO asociados a:

SERGIO ADRIAN LERMA HERNANDEZ

SERGIO ADRIAN LERMA HERNANDEZ

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Termalización y caos en sistemas de bosones	Tesis de Doctorado	SERGIO ADRIAN LERMA HERNANDEZ,	Cruz Moreno, Javier Israel de la,		2024

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DOCENCIA IMPARTIDA

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

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PATENTES

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

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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	2008-2026
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	2008-2026