GABRIEL GERMAN VELARDE

Datos Generales

Nombre: GABRIEL GERMAN VELARDE

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 36 años

Nombramientos

Vigente: INVESTIGADOR TITULAR B TC Definitivo
Instituto de Ciencias Físicas
Desde 01-01-2008 (fecha inicial de registros en el SIIA)

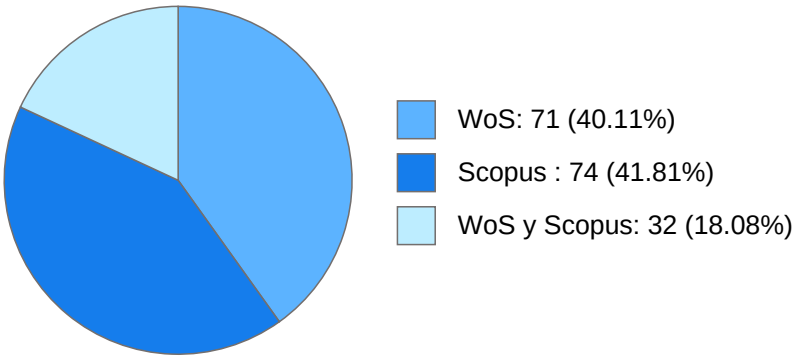
Estímulos, programas, premios y reconocimientos

SNI III 2024 - VIGENTE
SNI II - 2023
PRIDE C - 2024
PASPA Estancias Sabáticas 2015 - 2016
PASPA Estancias Sabáticas 2007 - 2008

GABRIEL GERMAN VELARDE

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Viability of generalized a-inflation from Planck, ACT and DESI data	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR	INTERNATIONAL JOURNAL OF MODERN PHYSICS D	2026
2	Bayesian analysis of a-Starobinsky model with Planck, ACT and DESI data	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR Karim Carrion et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2026
3	Reheating dynamics in inflationary cosmology: insights from a-attractor and a-Starobinsky models	GABRIEL GERMAN VELARDE	EUROPEAN PHYSICAL JOURNAL PLUS	2025
4	Perturbative analysis of the reheating dynamics of a-attractors	GABRIEL GERMAN VELARDE	INTERNATIONAL JOURNAL OF MODERN PHYSICS D	2025
5	Solution for cosmological observables in the Starobinsky model of inflation	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR Padilla L.E.	EUROPEAN PHYSICAL JOURNAL PLUS	2024
6	Primordial black hole formation during slow-reheating: a review	JUAN CARLOS HIDALGO CUELLAR GABRIEL GERMAN VELARDE Padilla L.E. et al.	Frontiers In Astronomy And Space Sciences	2024

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7	Inflationary models constrained by reheating	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR Padilla L.E.	EUROPEAN PHYSICAL JOURNAL PLUS	2024
8	Bayesian analysis of a generalized Starobinsky model with reheating constraints	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR Linares Cedeño F.X.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2024
9	A comparison between the Jordan and Einstein frames in Brans-Dicke theories with torsion	GABRIEL GERMAN VELARDE Gonzalez Quaglia R.	EUROPEAN PHYSICAL JOURNAL PLUS	2023
10	Model independent bounds for the number of e-folds during the evolution of the universe	GABRIEL GERMAN VELARDE Gonzalez Quaglia R. Moran Colorado A.M.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2023
11	Bayesian analysis for a class of ?-attractor inflationary models	GABRIEL GERMAN VELARDE ARIADNA MONTIEL ARENAS X. Linares Cedeño F. et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2023
12	Production of PBHs from inflaton structures	JUAN CARLOS HIDALGO CUELLAR GABRIEL GERMAN VELARDE Luis E. Padilla	PHYSICAL REVIEW D	2023
13	Geodesic structure of a rotating regular black hole	BRANDON ALEXIS BAUTISTA OLVERA JUAN CARLOS DEGOLLADO DAZA GABRIEL GERMAN VELARDE	GENERAL RELATIVITY AND GRAVITATION	2023
14	Constraining inflationary potentials with inflaton PBHs	JUAN CARLOS HIDALGO CUELLAR GABRIEL GERMAN VELARDE Padilla L.E.	PHYSICAL REVIEW D	2023
15	Reheating constraints and consistency relations of the Starobinsky model and some of its generalizations	GABRIEL GERMAN VELARDE Garcia M.A. Gonzalez Quaglia R. et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2023
16	A Natural Inflation inspired model	GABRIEL GERMAN VELARDE	GENERAL RELATIVITY AND GRAVITATION	2022
17	Constraining alpha-attractor models from reheating	GABRIEL GERMAN VELARDE	INTERNATIONAL JOURNAL OF MODERN PHYSICS D	2022

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18	Quartic hilltop inflation revisited	GABRIEL GERMAN VELARDE	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021
19	Constraints for the running index independent of the parameters of the model	GABRIEL GERMAN VELARDE	INTERNATIONAL JOURNAL OF MODERN PHYSICS D	2021
20	On the alpha-attractor T-models	GABRIEL GERMAN VELARDE	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021
21	New generalization of the simplest a-attractor T model	GABRIEL GERMAN VELARDE	PHYSICAL REVIEW D	2021
22	Simple supergravity model of inflation constrained with Planck 2018 data	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR ARIADNA MONTIEL ARENAS et al.	PHYSICAL REVIEW D	2020
23	Model independent results for the inflationary epoch and the breaking of the degeneracy of models of inflation	GABRIEL GERMAN VELARDE	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2020
24	Scalar field dark matter spectator during inflation: the effect of self-interaction	JOSE ALBERTO VAZQUEZ GONZALEZ GABRIEL GERMAN VELARDE Luis E. Padilla et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2019
25	Bayesian evidence for alpha-attractor dark energy models	JUAN CARLOS HIDALGO CUELLAR GABRIEL GERMAN VELARDE Francisco X. Linares Cedeno et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2019
26	Theoretical and observational constraints on Tachyon Inflation	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR Nandhini Barbosa-Cendejas et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2018
27	Collapse threshold for a cosmological Klein-Gordon field	JUAN CARLOS HIDALGO CUELLAR JOSUE DE SANTIAGO SANABRIA GABRIEL GERMAN VELARDE et al.	PHYSICAL REVIEW D	2017

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28	General bounds in Hybrid Natural Inflation	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR ROBERTO ALLAN SUSSMAN LIVOVSKY et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2017
29	Nonspherical Szekeres models in the language of cosmological perturbations	ROBERTO ALLAN SUSSMAN LIVOVSKY JUAN CARLOS HIDALGO CUELLAR GABRIEL GERMAN VELARDE et al.	PHYSICAL REVIEW D	2017
30	Canonical single field slow-roll inflation with a non-monotonic tensor-to-scalar ratio	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR ROBERTO ALLAN SUSSMAN LIVOVSKY et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2016
31	Coulomb's law corrections and fermion field localization in a tachyonic de Sitter thick braneworld	GABRIEL GERMAN VELARDE Cartas-Fuentevilla, Roberto Escalante, Alberto et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2016
32	Stability of a tachyon braneworld	GABRIEL GERMAN VELARDE Dagoberto Malagon Morejon Herrera-Aguilar, Alfredo et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2016
33	Hybrid Natural Inflation	GABRIEL GERMAN VELARDE Ross G.G. Vázquez J.A.	JOURNAL OF HIGH ENERGY PHYSICS	2016
34	Spherical dust fluctuations: The exact versus the perturbative approach	ROBERTO ALLAN SUSSMAN LIVOVSKY JUAN CARLOS HIDALGO CUELLAR GABRIEL GERMAN VELARDE et al.	PHYSICAL REVIEW D	2015
35	Constraining hybrid natural inflation with recent CMB data	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR Alberto Vazquez, J. et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2015
36	Erratum: Addendum: Constraining hybrid natural inflation with recent CMB data (Journal of Cosmology and Astroparticle Physics)	GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR Vazquez, J. Alberto et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2015

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37	Tachyon inflation in the large-N formalism	Nandinii BarbosaCendejas JOSUE DE SANTIAGO SANABRIA GABRIEL GERMAN VELARDE et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2015
38	Study of field fluctuations and their localization in a thick braneworld generated by gravity nonminimally coupled to a scalar field with the Gauss-Bonnet term	GABRIEL GERMAN VELARDE ALFREDO HERRERA AGUILAR Dagoberto Malagon Morejon et al.	PHYSICAL REVIEW D	2014
39	On gravity localization in scalar braneworlds with a super-exponential warp factor	GABRIEL GERMAN VELARDE ALFREDO HERRERA AGUILAR Dagoberto Malagon Morejon et al.	GENERAL RELATIVITY AND GRAVITATION	2014
40	Testing hybrid natural inflation with BICEP2	Mariana Carrillo Gonzalez GABRIEL GERMAN VELARDE JUAN CARLOS HIDALGO CUELLAR et al.	PHYSICS LETTERS B	2014
41	A de Sitter tachyon thick braneworld	GABRIEL GERMAN VELARDE ALFREDO HERRERA AGUILAR Dagoberto Malagon Morejon et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2013
42	Hybrid natural inflation from non-Abelian discrete symmetry	GABRIEL GERMAN VELARDE Ross, Graham G.	PHYSICS LETTERS B	2010
43	Hybrid natural low scale inflation	GABRIEL GERMAN VELARDE Ross, Graham G.	PHYSICS LETTERS B	2010
44	No early time inflation even with a cosmological constant	E. Galindo Dellavalle GABRIEL GERMAN VELARDE AXEL RICARDO DE LA MACORRA PETTERSSON MORIEL	NUOVO CIM B	2010
45	The mass, normalization and late time behavior of the tachyon field	AXEL RICARDO DE LA MACORRA PETTERSSON MORIEL GABRIEL GERMAN VELARDE Filobello U.	PHYSICS LETTERS B	2006
46	Inflation at the maxima of symmetric potentials	GABRIEL GERMAN VELARDE AXEL RICARDO DE LA MACORRA PETTERSSON MORIEL	International Journal Of Modern Physics A	2005
47	Cosmology with negative potentials with wf < -1	AXEL RICARDO DE LA MACORRA PETTERSSON MORIEL GABRIEL GERMAN VELARDE	INTERNATIONAL JOURNAL OF MODERN PHYSICS D	2004
48	Model of inflation independent of the initial conditions, with bounded number of e-folds and nslarger or smaller than one	GABRIEL GERMAN VELARDE AXEL RICARDO DE LA MACORRA PETTERSSON MORIEL	PHYSICAL REVIEW D	2004

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49	Angular inflation from supergravity	GABRIEL GERMAN VELARDE Mazumdar A. Pérez-Lorenzana A.	MODERN PHYSICS LETTERS A	2002
50	Acceptable inverse power potential quintessence with n = 18/7	GABRIEL GERMAN VELARDE AXEL RICARDO DE LA MACORRA PETTERSSON MORIEL	PHYSICS LETTERS B	2002
51	Low-scale inflation	GABRIEL GERMAN VELARDE Ross G. Sarkar S.	NUCLEAR PHYSICS B	2001
52	Low scale supergravity inflation with R-symmetry	GABRIEL GERMAN VELARDE AXEL RICARDO DE LA MACORRA PETTERSSON MORIEL MYRIAM MONDRAGON CEBALLOS	PHYSICS LETTERS B	2000
53	Implementing quadratic supergravity inflation	GABRIEL GERMAN VELARDE Ross G. Sarkar S.	PHYSICS LETTERS B	1999
54	The quark mass correction to the string potential	GABRIEL GERMAN VELARDE Jiang Y.	EUROPEAN PHYSICAL JOURNAL C	1999
55	Perturbative approach at finite temperature and the f4 model	GABRIEL GERMAN VELARDE	PHYSICS LETTERS B	1997
56	The Nambu-Goto string occupied by scalar fields: A two-loop calculation	GABRIEL GERMAN VELARDE	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	1996
57	Self-dual non-Abelian vortices in a F2 Chern-Simons theory	ARMANDO ANTILLON DIAZ GABRIEL GERMAN VELARDE Escalona J. et al.	PHYSICS LETTERS B	1995
58	Finite size Nambu-Goto string occupied by scalar fields at an arbitrary temperature	ARMANDO ANTILLON DIAZ GABRIEL GERMAN VELARDE	PHYSICAL REVIEW D	1994
59	Numerical study of the Nambu-Goto string model at finite length and temperature	ARMANDO ANTILLON DIAZ GABRIEL GERMAN VELARDE	PHYSICAL REVIEW D	1993
60	Kalusa-Klein approach in higher-dimensional theories of gravity with torsion	GABRIEL GERMAN VELARDE Macias A. Obregon O.	CLASSICAL AND QUANTUM GRAVITY	1993
61	Static quar k-antiquark potential for the Nambu-Goto string occupied by Bose or Fermi fields	GABRIEL GERMAN VELARDE Lynker M. Macas A.	PHYSICAL REVIEW D	1992
62	Mass dependence of the deconfinement transition for a Nambu-Goto string occupied by scalar fields	GABRIEL GERMAN VELARDE Lynker M.	PHYSICAL REVIEW D	1992

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63	Temperature behavior and thermal deconfinement for the Nambu-Goto string occupied by Bose or Fermi fields	GABRIEL GERMAN VELARDE Kleinert H. Lynker M.	PHYSICAL REVIEW D	1992
64	Two-loop string tension of stiff strings at finite temperature in any dimension	GABRIEL GERMAN VELARDE Kleinert H.	PHYSICS LETTERS B	1989
65	Perturbative two-loop quark potential of stiff strings in any dimension	GABRIEL GERMAN VELARDE Kleinert H.	PHYSICAL REVIEW D	1989
66	Stiffness dependence of deconfinement transition for strings with extrinsic curvature term	GABRIEL GERMAN VELARDE Kleinert H.	PHYSICS LETTERS B	1989
67	The one-loop effective potential and supersymmetry breaking in superstring models	GABRIEL GERMAN VELARDE Coughlan G.D. Ross G.G. et al.	PHYSICS LETTERS B	1987
68	On low-energy supersymmetry breaking through gaugino masses in superstring-inspired models	GABRIEL GERMAN VELARDE Coughlan G.D.	PHYSICS LETTERS B	1987
69	A cosmological problem for maximally symmetric supergravity	GABRIEL GERMAN VELARDE Ross G.G.	PHYSICS LETTERS B	1986
70	Brans-Dicke-type models with torsion	GABRIEL GERMAN VELARDE	PHYSICAL REVIEW D	1985
71	On Kaluza-Klein theory with torsion	GABRIEL GERMAN VELARDE	CLASSICAL AND QUANTUM GRAVITY	1985
72	On colour screening of classical Yang-Mills fields	GABRIEL GERMAN VELARDE	Journal Of Physics G: Nuclear Physics	1984
73	Yang-Mills equations with external sources: A connection with scalar theories	GABRIEL GERMAN VELARDE	Journal Of Physics G: Nuclear Physics	1984
74	Study of U(3) by embedding in O(6)	GABRIEL GERMAN VELARDE Chacón E.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	1982

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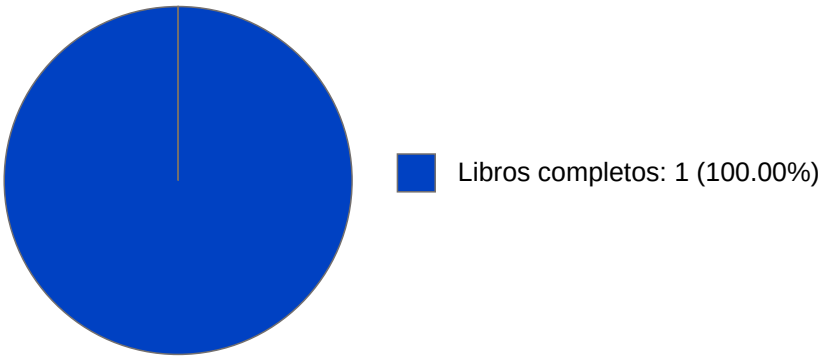
LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	XXI escuela de verano en física. Junio 17-28, 2013	GABRIEL GERMAN VELARDE ROCIO JAUREGUI RENAUD	Libro Completo	2014	9786070261817

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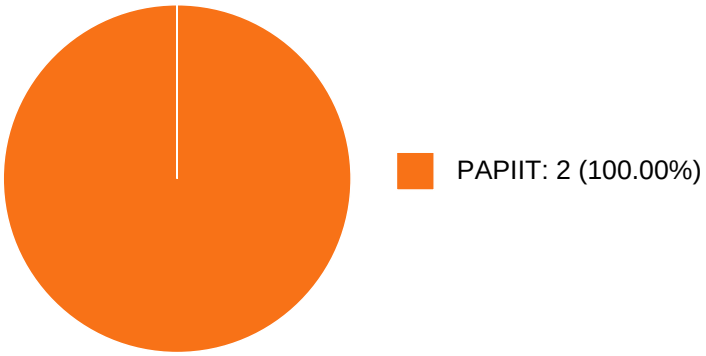
PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Estudios en gravitación y cosmología.	GABRIEL GERMAN VELARDE	Recursos PAPIIT	01-01-2019	31-12-2021
2	ESTUDIOS EN COSMOLOGIA INFLACIONARIA ,AGUJEROS NEGROS PRIMORDIALES Y ENERGIA OSCURA	GABRIEL GERMAN VELARDE	Recursos PAPIIT	01-01-2025	31-12-2026

GABRIEL GERMAN VELARDE

PARTICIPACIÓN EN TESIS

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

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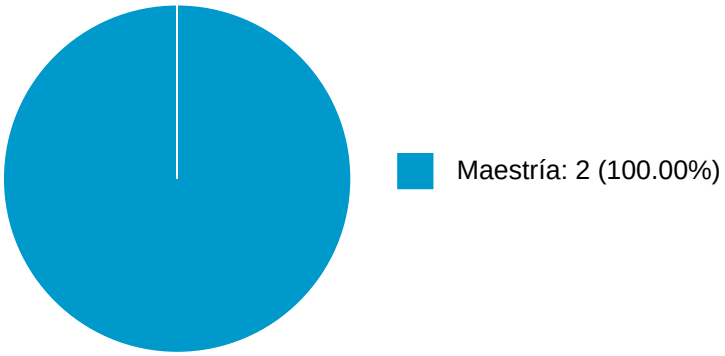
DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	TEORÍA CUÁNTICA DE CAMPOS I (F. DE ALTAS ENERGÍAS, F. NUCLEAR, GRAVITACIÓN Y F. MATEMÁTICA)	Instituto de Ciencias del Mar y Limnología	2	2020-2
2	Maestría	TEORÍA CUÁNTICA DE CAMPOS	Instituto de Ciencias Físicas	2	2019-2

GABRIEL GERMAN VELARDE

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