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**MICHAEL GERARD RICHER**

## Datos Generales

**Nombre:** MICHAEL GERARD RICHER

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 25 años

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## Nombramientos

**Vigente:** INVESTIGADOR TITULAR B TC Definitivo  
Instituto de Astronomía  
Desde 01-01-2019

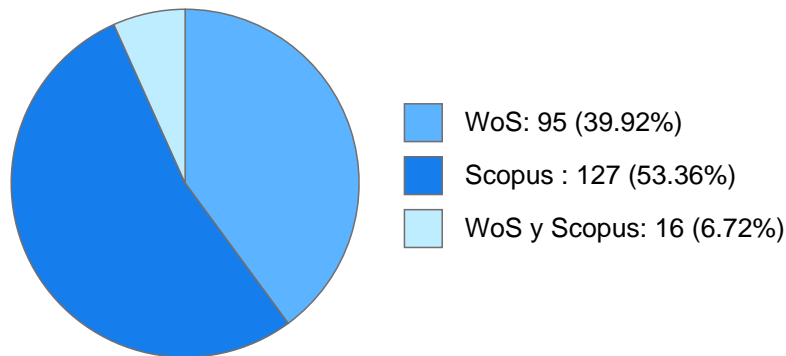
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## Estímulos, programas, premios y reconocimientos

SNI II - 2023  
PRIDE C 2014 - 2022  
PRIDE Fijo 2014  
PRIDE C 2014  
PRIDE Fijo 2014  
PRIDE C 2012 - 2013  
PRIDE Fijo 2012  
PRIDE C 2012  
PRIDE Fijo 2011 - 2012  
PRIDE D - 2011

## DOCUMENTOS EN REVISTAS

### Histórico de Documentos



#	Título	Autores	Revista	Año
1	Machine-learning enhanced photometric analysis of the extremely bright GRB 210822A	ROSA LETICIA BECERRA GODINEZ ALAN MORGAN WATSON FORSTER FABIO DE COLLE et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2024
2	Editorial: Planetary nebulae as tools for astrophysics	MIRIAM DEL CARMEN PEÑA CARDENAS CHRISTOPHE ROGER JACQUES MORISSET MICHAEL GERARD RICHER et al.	Frontiers In Astronomy And Space Sciences	2023
3	GRB 191016A: The onset of the forward shock and evidence of late energy injection	EMMA MARGARITA PEREYRA TALAMANTES NISSIM ILICH FRAIJA CABRERA ALAN MORGAN WATSON FORSTER et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2022
4	The Optical Two- and Three-dimensional Fundamental Plane Correlations for Nearly 180 Gamma-Ray Burst Afterglows with Swift/UVOT, RATIR, and the Subaru Telescope	NISSIM ILICH FRAIJA CABRERA ROSA LETICIA BECERRA GODINEZ ALAN MORGAN WATSON FORSTER et al.	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	2022



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5	NGC 6153: Reality is Complicated* * Based on observations collected at the European Southern Observatory under ESO program(s) 69.D-0174(A).	MICHAEL GERARD RICHER LORENA ARIAS MONTAÑO JOSE ALBERTO LOPEZ GARCIA et al.	ASTRONOMICAL JOURNAL	2022
6	Modeling the Prompt Optical Emission of GRB 180325A: The Evolution of a Spike from the Optical to Gamma Rays	ROSA LETICIA BECERRA GODINEZ FABIO DE COLLE JORGE DANIEL CARLOS CANTO ILLA et al.	ASTROPHYSICAL JOURNAL	2021
7	The five axes of the Turtle: symmetry and asymmetry in NGC 6210	WILLIAM JOHN HENNEY JOSE ALBERTO LOPEZ GARCIA MARIA TERESA GARCIA DIAZ et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2021
8	Estimating local seeing at Observatorio Astronomico Nacional in San Pedro Martir using CFD simulations of the atmospheric boundary layer	MICHAEL GERARD RICHER REMY FERNAND AVILA FOUCAT R. Sanchez Garcia et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2020
9	THIRTEEN YEARS OF WEATHER STATISTICS AT SAN PEDRO MARTIR OBSERVATORY	ILSE PLAUCHU FRAYN ENRIQUE COLORADO ORTIZ MICHAEL GERARD RICHER et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	2020
10	A multiwavelength analysis of a collection of short-duration GRBs observed between 2012 and 2015	ALAN MORGAN WATSON FORSTER WILLIAM HENRY LEE ALARDIN JOSE DE JESUS GONZALEZ GONZALEZ et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2019
11	Reverse Shock Emission Revealed in Early Photometry in the Candidate Short GRB 180418A	ROSA LETICIA BECERRA GODINEZ ALAN MORGAN WATSON FORSTER NISSIM ILLICH FRAIJA CABRERA et al.	ASTROPHYSICAL JOURNAL	2019
12	GRB 180620A: Evidence for Late-time Energy Injection	ROSA LETICIA BECERRA GODINEZ FABIO DE COLLE ALAN MORGAN WATSON FORSTER et al.	ASTROPHYSICAL JOURNAL	2019
13	The Temperature and Density from Permitted O II Lines in the Planetary Nebula NGC 7009	MICHAEL GERARD RICHER SILVIA LINDA TORRES CASTILLEJA Jorge E. Guillen Tavera et al.	ASTROPHYSICAL JOURNAL	2019
14	Mechanical preliminary design of 6.5 meter Telescopio San Pedro Martir (TSPM)	WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER JOSE DE JESUS GONZALEZ GONZALEZ et al.	Proceedings of SPIE	2018
15	TSPM f/5 Nasmyth configuration	JOEL HERRERA VAZQUEZ MARIA HERLINDA PEDRAYES LOPEZ GERARDO SIERRA DIAZ et al.	Proceedings of SPIE	2018



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16	Preliminary design for the f/5 Nasmyth tertiary mirror configuration for the TSPM	MARIA HERLINDA PEDRAYES LOPEZ JOEL HERRERA VAZQUEZ ERIKA SOHN LOPEZ FORMENT et al.	Proceedings of SPIE	2018
17	Recent developments at the OAN-SPM	JOSE DE JESUS GONZALEZ GONZALEZ MAURICIO REYES RUIZ WILLIAM HENRY LEE ALARDIN et al.	Proceedings of SPIE	2018
18	The Telescopio San Pedro Martir project	MICHAEL GERARD RICHER WILLIAM HENRY LEE ALARDIN JOSE DE JESUS GONZALEZ GONZALEZ et al.	Proceedings of SPIE	2018
19	Telescopio San Pedro Martir Observatory Final Design	WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER BEATRIZ SANCHEZ Y SANCHEZ et al.	Proceedings of SPIE	2018
20	Conceptual design proposed for the M2-f/5-Nasmyth support system of the Telescopio San Pedro Martir project	GERARDO SIERRA DIAZ JOEL HERRERA VAZQUEZ MICHAEL GERARD RICHER et al.	Proceedings of SPIE	2018
21	First photometric study of ultrashort-period contact binary ISWASP J140533.33+114639.1	MICHAEL GERARD RICHER Bin Zhang Sheng-Bang Qian et al.	RESEARCH IN ASTRONOMY AND ASTROPHYSICS	2018
22	The Kinematics of the Permitted CII lambda 6578 Line in a Large Sample of Planetary Nebulae	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA Suárez, G. et al.	ASTRONOMICAL JOURNAL	2017
23	ALMA and RATIR observations of GRB 131030A	ALAN MORGAN WATSON FORSTER WILLIAM HENRY LEE ALARDIN JOSE DE JESUS GONZALEZ GONZALEZ et al.	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN	2017
24	Photometric Observations of Supernova 2013cq Associated with GRB 130427A	WILLIAM HENRY LEE ALARDIN NISSIM ILICH FRAIJA CABRERA JOSE ANTONIO DE DIEGO ONSURBE et al.	ASTROPHYSICAL JOURNAL	2017
25	Photometric Observations of Supernova 2013cq Associated with GRB 130427A (vol 837 , pg 116 , 2017)	ALAN MORGAN WATSON FORSTER WILLIAM HENRY LEE ALARDIN NISSIM ILICH FRAIJA CABRERA et al.	ASTROPHYSICAL JOURNAL	2017
26	Significant and variable linear polarization during the prompt optical flash of GRB 160625B	ALAN MORGAN WATSON FORSTER WILLIAM HENRY LEE ALARDIN JOSE DE JESUS GONZALEZ GONZALEZ et al.	Nature	2017
27	Characterizing global expansion evolution of the ionized matter in planetary nebulae	MICHAEL GERARD RICHER J. A. Lopez M. Pereyra et al.	Iau Symposium Proceedings Series	2017



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28	Night Sky Brightness at San Pedro Martir Observatory	ILSE PLAUCHU FRAYN MICHAEL GERARD RICHER ENRIQUE COLORADO ORTIZ et al.	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC	2017
29	The kinematic evolution of the ionized shells of planetary nebulae	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER MARIA TERESA GARCIA DIAZ et al.	28TH INTERNATIONAL NUCLEAR PHYSICS CONFERENCE, INPC 2022	2016
30	Several evolutionary channels for bright planetary nebulae	MICHAEL GERARD RICHER Marshall L. McCall	Iau Symposium Proceedings Series	2016
31	THE KINEMATICS OF THE NEBULAR SHELLS AROUND LOW MASS PROGENITORS OF PNe WITH LOW METALLICITY	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER Pereyra, Margarita	ASTRONOMICAL JOURNAL	2016
32	The central engine of GRB 130831A and the energy breakdown of a relativistic explosion	JOSE ANTONIO DE DIEGO ONSURBE JOSE DE JESUS GONZALEZ GONZALEZ MICHAEL GERARD RICHER et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2016
33	OPTICAL AND NEAR-INFRARED OBSERVATIONS OF SN 2013DX ASSOCIATED WITH GRB 130702A	ALAN MORGAN WATSON FORSTER JOSE ANTONIO DE DIEGO ONSURBE JOSE DE JESUS GONZALEZ GONZALEZ et al.	ASTROPHYSICAL JOURNAL	2016
34	The kinematics of the nebular shells around low mass progenitors of PNe with low metallicity	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER Pereyra M.	Iau Symposium Proceedings Series	2016
35	The Telescopio San Pedro Mártir project	MICHAEL GERARD RICHER WILLIAM HENRY LEE ALARDIN JOSE DE JESUS GONZALEZ GONZALEZ et al.	Proceedings of SPIE	2016
36	Telescopio San Pedro Mártir Observatory preliminary design and project approach	WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER BEATRIZ SANCHEZ Y SANCHEZ et al.	Proceedings of SPIE	2016
37	San Pedro Martir telescope: Mexican design endeavor	WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER JOSE DE JESUS GONZALEZ GONZALEZ et al.	Proceedings of SPIE	2016
38	Mechanical conceptual design of 6.5 meter telescope: Telescopio San Pedro Mártir (TSPM)	WILLIAM HENRY LEE ALARDIN JOSE DE JESUS GONZALEZ GONZALEZ MICHAEL GERARD RICHER et al.	Proceedings of SPIE	2016

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39	A detailed study of the optical attenuation of gamma-ray bursts in the Swift era	ALAN MORGAN WATSON FORSTER WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2015
40	Happy birthday swift: Ultra-long GRB 141121A and its broadband afterglow	ALAN MORGAN WATSON FORSTER WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER et al.	ASTROPHYSICAL JOURNAL	2015
41	Identifying high-redshift gamma-ray bursts with RATIR	ALAN MORGAN WATSON FORSTER WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER et al.	ASTRONOMICAL JOURNAL	2014
42	A trio of gamma-ray burst supernovae: GRB 120729A, GRB 130215A/SN 2013ez, and GRB 130831A/SN 2013fu	JOSE ANTONIO DE DIEGO ONSURBE LEONID NIKITOV GUEORGUIEV DIMITROVA JOSE DE JESUS GONZALEZ GONZALEZ et al.	ASTRONOMY & ASTROPHYSICS	2014
43	The deceleration of nebular shells in evolved planetary nebulae	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA Pereyra M.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2014
44	Status of the transneptunian automated occultation survey (TAOS II)	DAVID SALOME HIRIART GARCIA WILLIAM HENRY LEE ALARDIN MAURICIO REYES RUIZ et al.	Proceedings of SPIE	2014
45	GRB 130831A: Birth and death of a magnetar at $z = 0.5$	JOSE DE JESUS GONZALEZ GONZALEZ MICHAEL GERARD RICHER CARLOS GERARDO ROMAN ZUÑIGA et al.	NINTH ANNUAL CONFERENCE ON LARGE HADRON COLLIDER PHYSICS, LHCP2021	2014
46	Introducing the CTA concept	MIGUEL ALCUBIERRE MOYA JOSE RUBEN ALFARO MOLINA MARIA MAGDALENA GONZALEZ SANCHEZ et al.	ASTROPARTICLE PHYSICS	2013
47	A detailed spatiokinematic model of the conical outflow of the multipolar planetary nebula NGC 7026	DAVID MITCHELL CLARK JOSE ALBERTO LOPEZ GARCIA WOLFGANG STEFFEN et al.	ASTRONOMICAL JOURNAL	2013
48	The deceleration of nebular shells in evolved planetary nebulae	Margarita Pereyra MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA	ASTROPHYSICAL JOURNAL	2013



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49	The discrepant kinematics of ORLs and CELs in NGC 7009 as a function of ionization structure	MICHAEL GERARD RICHER LEONID NIKITOV GUEORGUIEV DIMITROVA SILVIA LINDA TORRES CASTILLEJA et al.	ASTROPHYSICAL JOURNAL	2013
50	THE SAN PEDRO MARTIR KINEMATIC CATALOGUE OF GALACTIC PLANETARY NEBULAE	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER MARIA TERESA GARCIA DIAZ et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	2012
51	MORPHO-KINEMATIC ANALYSIS OF THE POINT-SYMMETRIC, BIPOLAR PLANETARY NEBULAE H $\beta$ 5 AND K 3-17, A PATHWAY TO POLY-POLARITY	JOSE ALBERTO LOPEZ GARCIA MARIA TERESA GARCIA DIAZ WOLFGANG STEFFEN et al.	ASTROPHYSICAL JOURNAL	2012
52	A DETAILED MORPHO-KINEMATIC MODEL OF THE ESKIMO, NGC 2392: A UNIFYING VIEW WITH THE CAT'S EYE AND SATURN PLANETARY NEBULAE	MARIA TERESA GARCIA DIAZ JOSE ALBERTO LOPEZ GARCIA WOLFGANG STEFFEN et al.	ASTROPHYSICAL JOURNAL	2012
53	Performance and calibration of H2RG detectors and SIDECAR ASICs for the RATIR camera	JOSE ANTONIO DE DIEGO ONSURBE ALEJANDRO FARAH SIMON JOSE DE JESUS GONZALEZ GONZALEZ et al.	Proceedings of SPIE	2012
54	Automation of the OAN/SPM 1.5-meter Johnson telescope for operations with RATIR	ALAN MORGAN WATSON FORSTER MICHAEL GERARD RICHER URANIA CESEÑA BORBON et al.	Proceedings of SPIE	2012
55	Mechanical design and integration of the support structure for the Reionization And Transients Infrared instrument RATIR	ALEJANDRO FARAH SIMON JOSE DE JESUS GONZALEZ GONZALEZ ALAN MORGAN WATSON FORSTER et al.	Proceedings of SPIE	2012
56	The Transneptunian Automated Occultation Survey (TAOS II)	DAVID SALOME HIRIART GARCIA WILLIAM HENRY LEE ALARDIN MAURICIO REYES RUIZ et al.	Proceedings of SPIE	2012
57	First light with RATIR: An automated 6-band optical/NIR imaging camera	JOSE ANTONIO DE DIEGO ONSURBE JOSE DE JESUS GONZALEZ GONZALEZ WILLIAM HENRY LEE ALARDIN et al.	Proceedings of SPIE	2012
58	Software solution for autonomous observations with H2RG detectors and SIDECAR ASICs for the RATIR camera	ALEJANDRO FARAH SIMON JOSE DE JESUS GONZALEZ GONZALEZ WILLIAM HENRY LEE ALARDIN et al.	Proceedings of SPIE	2012
59	The SPM kinematic catalogue of Galactic planetary nebulae	MICHAEL GERARD RICHER DAVID MITCHELL CLARK WOLFGANG STEFFEN et al.	Iau Symposium Proceedings Series	2011
60	Planetary nebula populations and kinematics	MICHAEL GERARD RICHER	Iau Symposium Proceedings Series	2011



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61	A Cat's Eye view of the Eskimo from Saturn	WOLFGANG STEFFEN MICHAEL GERARD RICHER García-Díaz M.-T. et al.	Iau Symposium 2011 Proceedings Series
62	A detailed spatiokinematic model of the multipolar planetary nebula NGC 7026	DAVID MITCHELL CLARK JOSE ALBERTO LOPEZ GARCIA WOLFGANG STEFFEN et al.	Iau Symposium 2011 Proceedings Series
63	The kinematics of evolved planetary nebulae	MICHAEL GERARD RICHER Pereyra E.M. López J.-A.	Iau Symposium 2011 Proceedings Series
64	Several ways to brightness	MICHAEL GERARD RICHER	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS 2011
65	The chemical composition of TS 01, the most oxygen-deficient planetary nebula AGB nucleosynthesis in a metal-poor binary star	CHRISTOPHE ROGER JACQUES MORISSET GAGIK TOVMASIAN MICHAEL GERARD RICHER et al.	ASTRONOMY & ASTROPHYSICS 2010
66	THE DOUBLE-DEGENERATE NUCLEUS OF THE PLANETARY NEBULA TS 01: A CLOSE BINARY EVOLUTION SHOWCASE	GAGIK TOVMASIAN CHRISTOPHE ROGER JACQUES MORISSET MIRIAM DEL CARMEN PEÑA CARDENAS et al.	ASTROPHYSICAL JOURNAL 2010
67	THE SAN PEDRO MARTIR PLANETARY NEBULA KINEMATIC CATALOGUE: EXTRAGALACTIC PLANETARY NEBULAE	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA H. Riesgo et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA 2010
68	SHAPING THE GLOWING EYE PLANETARY NEBULA, NGC 6751	DAVID MITCHELL CLARK MARIA TERESA GARCIA DIAZ JOSE ALBERTO LOPEZ GARCIA et al.	ASTROPHYSICAL JOURNAL 2010
69	Deep Ks -near-infrared surface photometry of 80 dwarf irregular galaxies in the local volume	MICHAEL GERARD RICHER Fingerhut R.L. McCall M.L. et al.	ASTROPHYSICAL JOURNAL 2010
70	The evolution of the kinematics of nebular shells in planetary nebulae in the milky way bulge	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA MARIA TERESA GARCIA DIAZ et al.	ASTROPHYSICAL JOURNAL 2010
71	Mechanical configurations for the Reionization and Transients Infrared camera (RATIR)	ALEJANDRO FARAH SIMON EVERARDO ESTEBAN BAROJAS WEBER LEONID NIKITOV GUEORGUIEV DIMITROVA et al.	Proceedings of SPIE 2010





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72	Nebular kinematics of planetary nebulae as tests of possible differences of distribution of permitted and forbidden emission lines	MICHAEL GERARD RICHER SILVIA LINDA TORRES CASTILLEJA LEONID NIKITOV GUEORGUIEV DIMITROVA et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2009
73	THE OUTFLOWS AND THREE-DIMENSIONAL STRUCTURE OF NGC 6337: A PLANETARY NEBULA WITH A CLOSE BINARY NUCLEUS	MARIA TERESA GARCIA DIAZ DAVID MITCHELL CLARK JOSE ALBERTO LOPEZ GARCIA et al.	ASTROPHYSICAL JOURNAL	2009
74	The expanding nebular remnant of the recurrent nova rs ophiuchi (2006). ii. modeling of combined hubble space telescope imaging and ground-based spectroscopy	JOAQUIN IGNACIO AGUSTIN BOHIGAS BOSCH JUAN MANUEL ECHEVARRIA ROMAN RAFAEL CARLOS PATRICIO COSTERO Y GRACIA et al.	ASTROPHYSICAL JOURNAL	2009
75	Optical line profiles of the Helix planetary nebula (NGC 7293) to large radii	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER Meaburn, J.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2008
76	The planetary nebula NGC 1360: A test case of magnetic collimation and evolution after the fast wind	MARIA TERESA GARCIA DIAZ JOSE ALBERTO LOPEZ GARCIA GUILLERMO MIGUEL GARCIA SEGURA et al.	ASTROPHYSICAL JOURNAL	2008
77	The emission and kinematic structures of the bipolar planetary nebula M 1-8	MICHAEL GERARD RICHER Ramos-Larios, G. Phillips, J. P. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2008
78	Non-local thermodynamic equilibrium model of NGC 6543's central star and its relation to the surrounding planetary nebula	L. N. Georgiev MANUEL PEIMBERT SIERRA MICHAEL GERARD RICHER et al.	ASTROPHYSICAL JOURNAL	2008
79	The acceleration of the nebular shells in planetary nebulae in the milky way bulge	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA Margarita Pereyra et al.	ASTROPHYSICAL JOURNAL	2008
80	Bright planetary nebulae and their progenitors in galaxies without star formation	MICHAEL GERARD RICHER McCall M.L.	ASTROPHYSICAL JOURNAL	2008
81	Recycling matter in the Universe: X-ray observations of SBS1150+599A (PN G135.9+55.9)	GAGIK TOVMASIAN MIRIAM DEL CARMEN PEÑA CARDENAS MICHAEL GERARD RICHER et al.	AIP Conference Proceedings	2008



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82	The escaping spectroscopic binary $\gamma$ Ori E	RAFAEL CARLOS PATRICIO COSTERO Y GRACIA CHRISTINE PATRICIA ALLEN ARMIÑO JUAN MANUEL ECHEVARRIA ROMAN et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2008
83	Site testing at San Pedro Mártir	MAURICIO MANUEL TAPIA IBARGUENGOITIA DAVID SALOME HIRIART GARCIA MICHAEL GERARD RICHER et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2007
84	The extinction and distance of Maffei 2 and a new view of the ic 342/Maffei group	MICHAEL GERARD RICHER Fingerhut R.L. Lee H. et al.	ASTROPHYSICAL JOURNAL	2007
85	The chemical composition of planetary nebulae and HII regions in NGC 3109	MICHAEL GERARD RICHER Stasinska G. MIRIAM DEL CARMEN PEÑA CARDENAS	ASTRONOMY & ASTROPHYSICS	2007
86	The progenitors of planetary nebulae in dwarf irregular galaxies	MICHAEL GERARD RICHER Mccall M.L.	ASTROPHYSICAL JOURNAL	2007
87	H $\alpha$ line profiles for a sample of supergiant HII regions III. Model line profiles	MICHAEL GERARD RICHER WOLFGANG STEFFEN JOSE ALBERTO LOPEZ GARCIA et al.	ASTRONOMY & ASTROPHYSICS	2007
88	A catalog of planetary nebula candidates and HII regions in NGC 3109	MICHAEL GERARD RICHER Stasinska G. MIRIAM DEL CARMEN PEÑA CARDENAS	ASTRONOMY & ASTROPHYSICS	2007
89	The enigma of the oldest 'nova': The central star and nebula of CK Vul	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER Hajduk M. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2007
90	The narrow-field telescope science case: A proposal	MICHAEL GERARD RICHER	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2007



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91	Using the VLT to analyze the compact photoionized regions in NGC 3109	MICHAEL GERARD RICHER Stasinska G. MIRIAM DEL CARMEN PEÑA CARDENAS	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2007
92	Uniformity despite diversity: PN expansion velocities in the local group	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA Lee M.G. et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2007
93	Chemical properties of star-forming dwarf galaxies	MICHAEL GERARD RICHER Vaduvescu O. McCall M.L.	ASTRONOMICAL JOURNAL	2007
94	Iron depletion in the hot bubbles in planetary nebulae	MICHAEL GERARD RICHER Georgiev L.N. Arrieta A. et al.	ASTROPHYSICAL JOURNAL	2006
95	Planetary nebulae as probes of the chemical evolution of dynamically hot systems	MICHAEL GERARD RICHER Mccall M.L.	Eso Astrophysics Symposia	2006
96	Infrared properties of star-forming dwarf galaxies. II. Blue compact dwarf galaxies in the Virgo Cluster	MICHAEL GERARD RICHER Vaduvescu O. Mccall M.L.	ASTRONOMICAL JOURNAL	2006
97	Ha line profiles for a sample of supergiant HII regions II. Broad, low intensity components	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA Rozas M. et al.	ASTRONOMY & ASTROPHYSICS	2006
98	Ha line profiles for a sample of supergiant HII regions I. the main spectral component	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA Rozas M. et al.	ASTRONOMY & ASTROPHYSICS	2006
99	The X-ray binary 2S0114+650=LSI+65 010 A slow pulsar or tidally-induced pulsations?	GLORIA SUZANNE KOENIGSBERGER HOROWITZ MICHAEL GERARD RICHER Georgiev L. et al.	ASTRONOMY & ASTROPHYSICS	2006
100	The spectroscopic properties of bright extragalactic planetary nebulae	MICHAEL GERARD RICHER	Iau Symposium Proceedings Series	2006
101	Non-LTE model for the wind of the NGC 6543 central star	MICHAEL GERARD RICHER Georgiev L.N. Hillier D.J. et al.	Iau Symposium Proceedings Series	2006
102	The PN candidates in NGC 3109: VLT-FORS1 imaging and spectroscopy	MICHAEL GERARD RICHER Stasinska G. MIRIAM DEL CARMEN PEÑA CARDENAS	Iau Symposium Proceedings Series	2006



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103	Morpho-kinematic analysis of PNe with intense [N II] and [S II] emission lines	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER Riesgo H.	Iau Symposium 2006 Proceedings Series
104	The SPM Kinematic Catalogue of Planetary Nebulae	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER WOLFGANG STEFFEN et al.	Iau Symposium 2006 Proceedings Series
105	The chemical composition of PNG 135.9+55.9, the most oxygen poor planetary nebula	GAGIK TOVMASIAN MICHAEL GERARD RICHER Stasinska G. et al.	Iau Symposium 2005 Proceedings Series
106	On the most metal-poor PN and its binary central star	GAGIK TOVMASIAN MICHAEL GERARD RICHER Napiwotzki R. et al.	AIP Conference 2005 Proceedings
107	Infrared properties of star-forming dwarf galaxies. I. Dwarf irregular galaxies in the local volume	MICHAEL GERARD RICHER Vaduvescu O. McCall M.L. et al.	ASTRONOMICAL 2005 JOURNAL
108	Uniformity despite diversity: PN expansion velocities in the Local Group	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA	AIP Conference 2005 Proceedings
109	Distance to NGC 253 based on the planetary nebula luminosity function	MICHAEL GERARD RICHER Rekola R. McCall M.L. et al.	MONTHLY 2005 NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
110	Confirmation of a stellar microjet in the Rosette H II region (NGC 2244)	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER Meaburn J. et al.	ASTRONOMICAL 2005 JOURNAL
111	The kinematics of the large western knot in the halo of the young planetary nebula NGC 6543	JOSE ALBERTO LOPEZ GARCIA MICHAEL GERARD RICHER Mitchell D.L. et al.	MONTHLY 2005 NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
112	A close binary nucleus in the most oxygen-poor planetary nebula PN G135.9+55.9	GAGIK TOVMASIAN MICHAEL GERARD RICHER Napiwotzki R. et al.	ASTROPHYSICAL 2004 JOURNAL
113	The kinematics of the most oxygen-poor planetary nebula PNG 135.9+55.9	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA WOLFGANG STEFFEN et al.	ASTRONOMY & 2003 ASTROPHYSICS
114	Uncovering additional clues to galaxy evolution. II. The environmental impact of the Virgo Cluster on the evolution of dwarf irregular galaxies	MICHAEL GERARD RICHER Lee H. McCall M.L.	ASTRONOMICAL 2003 JOURNAL
115	Is HCG 31 undergoing a merger or a fly-by interaction?	MICHAEL GERARD RICHER MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS Georgiev L. et al.	ASTRONOMY & 2003 ASTROPHYSICS



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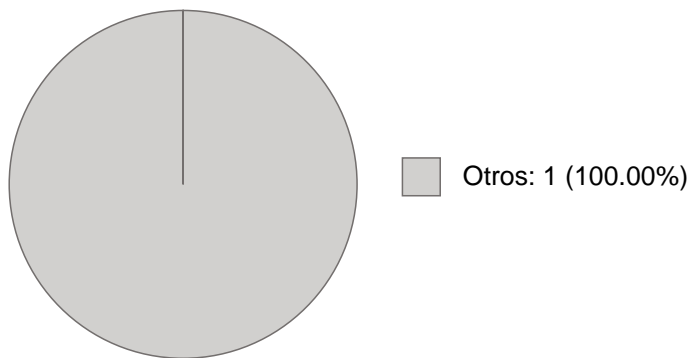
116	The $\alpha$ -element abundances in the most oxygen-poor planetary nebula PNG 135.9+55.9	MICHAEL GERARD RICHER GAGIK TOVMASIAN Stasinska G. et al.	ASTRONOMY & ASTROPHYSICS	2002
117	IC 10: More evidence that it is a blue compact dwarf	MICHAEL GERARD RICHER MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS Bullejos A. et al.	ASTRONOMY & ASTROPHYSICS	2001
118	The dwarf irregular galaxy UGC 7636 exposed: Stripping at work in the Virgo Cluster	MICHAEL GERARD RICHER Lee H. McCall M.L.	ASTROPHYSICAL JOURNAL	2000
119	Planetary nebulae in M 32 and the bulge of M 31: Line intensities and oxygen abundances	MICHAEL GERARD RICHER Stasinska G. McCall M.L.	ASTRON ASTROPHYS SUP	1999
120	The chemical evolution of dynamically hot galaxies	MICHAEL GERARD RICHER McCall M.L. Stasinska G.	ASTRONOMY & ASTROPHYSICS	1998
121	The planetary nebulae populations in five galaxies: Abundance patterns and evolution	MICHAEL GERARD RICHER Stasinska G. Mc Call M.L.	ASTRONOMY & ASTROPHYSICS	1998
122	Theoretical models of the planetary nebula populations in galaxies: The ISM oxygen abundance when star formation stops	MICHAEL GERARD RICHER McCall M.L. Arimoto N.	ASTRON ASTROPHYS SUP	1997
123	Oxygen abundances in diffuse ellipticals and the metallicity-luminosity relations for dwarf galaxies	MICHAEL GERARD RICHER McCall M.L.	ASTROPHYSICAL JOURNAL	1995
124	The shape, expansion rate and distance of supernova 1993J from VLBI measurements	MICHAEL GERARD RICHER Bartel N. Bietenholz M.F. et al.	Nature	1994
125	Erratum: The shape, expansion rate and distance of supernova 1993J from VLBI measurements (Nature (1994) 368 (610-613))	MICHAEL GERARD RICHER Bartel N. Bietenholz M.F. et al.	Nature	1994
126	Bright planetary nebulae as probes of chemical evolution	MICHAEL GERARD RICHER	ASTROPHYSICAL JOURNAL	1993
127	Planetary nebulae and H II regions in NGC 3109	MICHAEL GERARD RICHER McCall M.L.	ASTRONOMICAL JOURNAL	1992
128	Neutral oxygen in planetary nebulae: Probing radiative transfer and nebular structure	MICHAEL GERARD RICHER McCall M.L. Martin P.G.	ASTROPHYSICAL JOURNAL	1991
129	Getting to the bottom of the lagoon: Dust, magnetism, and star formation	MICHAEL GERARD RICHER McCall M.L. Visvanathan N.	ASTROPHYSICAL JOURNAL	1990



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**LIBROS Y CAPITULOS CON ISBN**

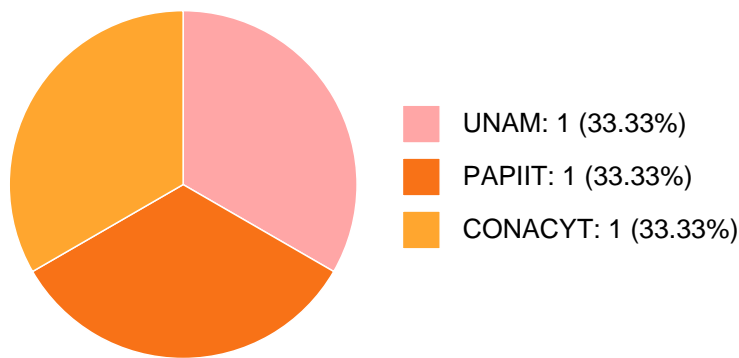
**Obras con registro ISBN**



#	Título	Autores	Alcance	Año	ISBN
1	GRB 130831a: Rise and demise of a magnetar at $z = 0.5$	JOSE ANTONIO DE DIEGO ONSURBE JOSE DE JESUS GONZALEZ GONZALEZ ALAN MORGAN WATSON FORSTER et al.	Conferenc e Paper	2018	9789813226593

## PARTICIPACIÓN EN PROYECTOS

### Histórico de participación en proyectos



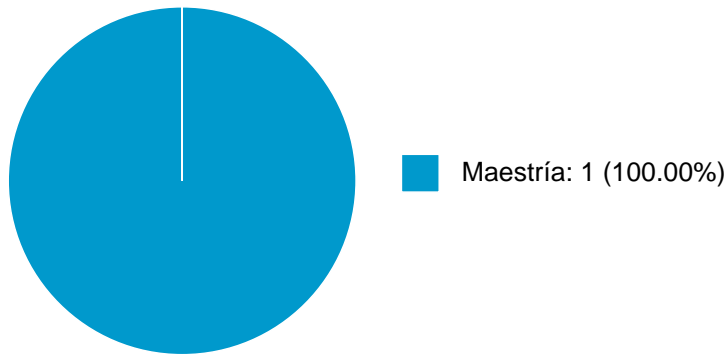
#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	SPM- Telescopio 6.5 (Etapa inicial).	WILLIAM HENRY LEE ALARDIN MICHAEL GERARD RICHER JOSE DE JESUS GONZALEZ GONZALEZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2015	31-12-2024
2	La cinemática de líneas permitidas en nebulosas planetarias.	MICHAEL GERARD RICHER JOSE ALBERTO LOPEZ GARCIA	Recursos PAPIIT	01-01-2019	31-12-2021
3	La cinemática de líneas permitidas en nebulosas planetarias.	MICHAEL GERARD RICHER	Recursos CONACYT	01-11-2019	08-11-2022



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## PARTICIPACIÓN EN TESIS

### Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Estudio comparativo de la cinemática de nebulosas planetarias galácticas y extragalácticas	Tesis de Maestría	MICHAEL GERARD RICHER,	Baez Barrios, Argelia Sol-Haret,	Instituto de Astronomía,	2014





**Sistema Integral de Información Académica**  
**Dirección General de Evaluación Institucional**  
**Reporte de Producción Académica**



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**DOCENCIA IMPARTIDA**

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

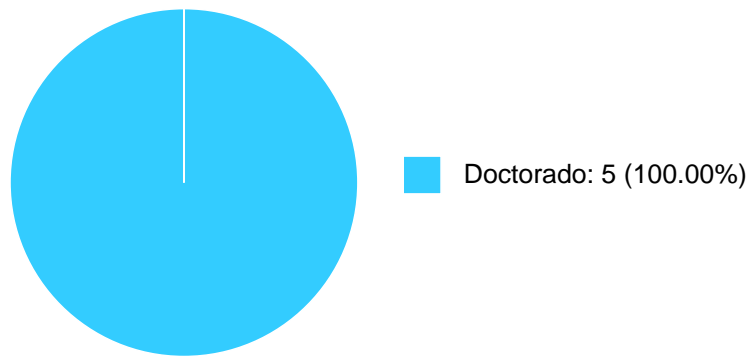
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**TUTORIAS EN POSGRADO**

**Histórico de tutorías en posgrado**



#	Entidad	Nivel	Plan de estudios	Año	Semestre
1	Instituto de Astronomía	Doctorado	Doctorado en Astrofísica	2013	2014-1
2	Instituto de Astronomía	Doctorado	Doctorado en Astrofísica	2012	2012-2
3	Instituto de Astronomía	Doctorado	Doctorado en Astrofísica	2011	2012-1
4	Instituto de Astronomía	Doctorado	Doctorado en Astrofísica	2010	2010-2
5	Instituto de Astronomía	Doctorado	Doctorado en Astrofísica	2010	2011-1



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**MICHAEL GERARD RICHER**

**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	2008-2024
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2024
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2023
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

### Externos

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