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Coordinación de Planeación, Evaluación y
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Reporte individual



GUSTAVO RAMON BRUZUAL ALFONZO

Datos Generales

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Nombramientos

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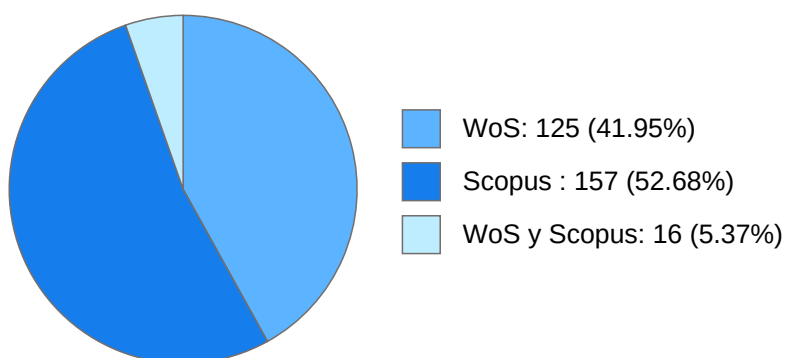
Estímulos, programas, premios y reconocimientos

SNI Emérito 2022 - VIGENTE
SNI III 2015 - 2021
PRIDE D 2017 - 2024
PRIDE C 2012 - 2017

GUSTAVO RAMON BRUZUAL ALFONZO

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	The ALPINE-ALMA [CII] Survey: Unveiling the baryon evolution in the interstellar medium of $z \sim 5$ star-forming galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Sawant P. Nanni A. et al.	ASTRONOMY & ASTROPHYSICS	2025
2	A new prescription for the spectral properties of population III stellar populations	GUSTAVO RAMON BRUZUAL ALFONZO Marie Lecroq Stephane Charlot et al.	ASTRONOMY & ASTROPHYSICS	2025
3	The youngest star clusters in the Large Magellanic Cloud	RICARDO CHÁVEZ MURILLO ROSA AMELIA GONZALEZ LOPEZ LIRA GUSTAVO RAMON BRUZUAL ALFONZO	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2025
4	Nebular emission from young stellar populations including binary stars	GUSTAVO RAMON BRUZUAL ALFONZO Lecroq M. Charlot S. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2024
5	Ages and metallicities of globular clusters in M81 using GTC/OSIRIS spectra	GUSTAVO RAMON BRUZUAL ALFONZO Luis Lomeli-Nunez Y. D. Mayya et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2024

GUSTAVO RAMON BRUZUAL ALFONZO

6	Chemical abundances and ionizing mechanisms in the star-forming double-ring of AM 0644-741 using MUSE data	JAVIER ZARAGOZA CARDIEL GUSTAVO RAMON BRUZUAL ALFONZO Gómez-González V.M.A. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2024
7	Quantifying the Escape of Ly α at $z \approx 5-6$: A Census of Ly α -emitting Galaxies Spectroscopically Confirmed by JWST and VLT/MUSE	GUSTAVO RAMON BRUZUAL ALFONZO Xiaojing Lin Zheng Cai et al.	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	2024
8	Variation of the stellar initial mass function in semi-analytical models: III. Testing the cosmic-ray regulated integrated galaxy-wide initial mass function	GUSTAVO RAMON BRUZUAL ALFONZO Fabio Fontanot Francesco La Barbera et al.	ASTRONOMY & ASTROPHYSICS	2024
9	The PARSEC view of star formation in galaxy centres: from protoclusters to star clusters in an early-type spiral	GUSTAVO RAMON BRUZUAL ALFONZO Almudena Prieto C. Gladis Magris et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2024
10	Detection of He $^{++}$ ion in the star-forming ring of the Cartwheel using MUSE data and ionizing mechanisms	GUSTAVO RAMON BRUZUAL ALFONZO Y. D. Mayya A. Plat et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2023
11	Metal-enriched Neutral Gas Reservoir around a Strongly Lensed Low-mass Galaxy at $z=4$ Identified by JWST/NIRISS and VLT/MUSE	GUSTAVO RAMON BRUZUAL ALFONZO Lin X. Cai Z. et al.	ASTROPHYSICAL JOURNAL LETTERS	2023
12	The relation between morphology, star formation history, and environment in local Universe galaxies	ROSA AMELIA GONZALEZ LOPEZ LIRA BERNARDO CERVANTES SODI GUSTAVO RAMON BRUZUAL ALFONZO et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2023
13	Simulated Observations of Star Formation Regions: Infrared Evolution of Globally Collapsing Clouds	ROBERTO JOSE GALVAN MADRID JACOPO FRITZ GUSTAVO RAMON BRUZUAL ALFONZO et al.	ASTROPHYSICAL JOURNAL	2023
14	Extreme broad He II emission at high and low redshifts: the dominant role of VMS in NGC 3125-A1 and CDFS131717	JOSE ANDRES SIXTOS GONZALEZ GUSTAVO RAMON BRUZUAL ALFONZO Wofford A. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2023

GUSTAVO RAMON BRUZUAL ALFONZO

15	Constraints on star formation in Orion A from Gaia	GUSTAVO RAMON BRUZUAL ALFONZO Jairo A. Alzate Marina Kounkel et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2023
16	On the origin of optical and IR emission lines in star-forming galaxies	MARIELA MARTINEZ PAREDES GUSTAVO RAMON BRUZUAL ALFONZO CHRISTOPHE ROGER JACQUES MORISSET et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2023
17	The cluster initial mass function of the M82 disc super star clusters	GUSTAVO RAMON BRUZUAL ALFONZO Cuevas-Otahola B. Mayya Y.D. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2023
18	The Mass-Metallicity Relation of Dwarf Galaxies at Cosmic Noon from JWST Observations	GUSTAVO RAMON BRUZUAL ALFONZO Li M. Cai Z. et al.	ASTROPHYSICAL JOURNAL LETTERS	2023
19	A Spectroscopic Survey of Biased Halos in the Reionization Era (ASPIRE): JWST Discovers an Overdensity around a Metal Absorption-selected Galaxy at $z \sim 5.5$	GUSTAVO RAMON BRUZUAL ALFONZO Wu Y. Wang F. et al.	ASTROPHYSICAL JOURNAL LETTERS	2023
20	SDSS-IV MANGA: THE RADIAL DISTRIBUTION OF PHYSICAL PROPERTIES WITHIN GALAXIES IN THE NEARBY UNIVERSE	JORGE KAROLT BARRERA BALLESTEROS SEBASTIAN FRANCISCO SANCHEZ SANCHEZ CARLOS CRISPIN ESPINOSA PONCE et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA	2023
21	HST FUV Spectroscopy of Super Star Cluster A in the Green Pea Analog Mrk 71: Revealing the Presence of Very Massive Stars	GUSTAVO RAMON BRUZUAL ALFONZO Linda J. Smith M. S. Oey et al.	ASTROPHYSICAL JOURNAL	2023
22	NGC 3125-A1 revisited at higher spectral resolution with COS G160M	AIDA HORTENSIA NAVA BENCHEIKH JOSE ANDRES SIXTOS GONZALEZ GUSTAVO RAMON BRUZUAL ALFONZO et al.	Iau Symposium Proceedings Series	2022
23	Direct Constraints on the Extremely Metal-poor Massive Stars Underlying Nebular C iv Emission from Ultra-deep HST/COS Ultraviolet Spectroscopy	GUSTAVO RAMON BRUZUAL ALFONZO Peter Senchyna Daniel P. Stark et al.	ASTROPHYSICAL JOURNAL	2022
24	Post-starburst Galaxies in the Centers of Intermediate-redshift Clusters	JACOPO FRITZ GUSTAVO RAMON BRUZUAL ALFONZO Ariel Werle et al.	ASTROPHYSICAL JOURNAL	2022

GUSTAVO RAMON BRUZUAL ALFONZO

25	Chemical Evolution History of MaNGA Galaxies	SEBASTIAN FRANCISCO SANCHEZ SANCHEZ MARIA LETICIA CARIGI DELGADO GUSTAVO RAMON BRUZUAL ALFONZO et al.	ASTROPHYSICAL JOURNAL	2022
26	CoSHA: Code for Stellar Properties Heuristic Assignment-for the MaStar Stellar Library	GUSTAVO RAMON BRUZUAL ALFONZO SEBASTIAN FRANCISCO SANCHEZ SANCHEZ MARIA LETICIA CARIGI DELGADO et al.	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	2022
27	J-PLUS: Detecting and studying extragalactic globular clusters The case of NGC 1023	GUSTAVO RAMON BRUZUAL ALFONZO Danielle de Brito Silva Paula Coelho et al.	ASTRONOMY & ASTROPHYSICS	2022
28	SDSS-IV MaNGA: pyPipe3D Analysis Release for 10,000 Galaxies	SEBASTIAN FRANCISCO SANCHEZ SANCHEZ JORGE KAROLT BARRERA BALLESTEROS ARTEMI CAMPS FARIÑA et al.	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	2022
29	The Relation between Globular Cluster Systems and Supermassive Black Holes in Spiral Galaxies. III. The Link to the M.-M (*) Correlation	ROSA AMELIA GONZALEZ LOPEZ LIRA LAURENT RAYMOND LOINARD GUSTAVO RAMON BRUZUAL ALFONZO et al.	ASTROPHYSICAL JOURNAL	2022
30	Synthetic photometry of OB star clusters with stochastically sampled IMFs: analysis of models and HST observations	GUSTAVO RAMON BRUZUAL ALFONZO Orozco-Duarte R. Wofford A. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2022
31	Characterizing star formation in the innermost kiloparsec of the galaxy NGC 1386	GUSTAVO RAMON BRUZUAL ALFONZO Prieto A. Gladis Magris C. et al.	Iau Symposium Proceedings Series	2021
32	Star formation history of the solar neighbourhood as told by Gaia	GUSTAVO RAMON BRUZUAL ALFONZO DANIEL JACOBO DIAZ GONZALEZ Jairo A. Alzate	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2021
33	On the Thermally Pulsing Asymptotic Giant Branch Contribution to the Light of Nearby Disk Galaxies	GUSTAVO RAMON BRUZUAL ALFONZO ROSA AMELIA GONZALEZ LOPEZ LIRA Eric E. Martinez-Garcia et al.	ASTROPHYSICAL JOURNAL	2021
34	Ultraviolet spectra of extreme nearby star-forming regions: Evidence for an overabundance of very massive stars	GUSTAVO RAMON BRUZUAL ALFONZO Peter Senchyna Daniel P. Stark et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2021
35	The miniJPAS survey: Identification and characterization of galaxy populations with the J-PAS photometric system	GUSTAVO RAMON BRUZUAL ALFONZO González Delgado R.M. Díaz-García L.A. et al.	ASTRONOMY & ASTROPHYSICS	2021

GUSTAVO RAMON BRUZUAL ALFONZO

36	Modelling H-2 and its effects on star formation using a joint implementation of gadget-3 and KROME	GUSTAVO RAMON BRUZUAL ALFONZO Sillero E. Tissera P.B. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2021
37	Constraints on the dust extinction law of the Galaxy with Swift/UVOT, Gaia, and 2MASS	GUSTAVO RAMON BRUZUAL ALFONZO Ferreras I. Tress M. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2021
38	Star cluster survival in dark matter haloes: an old cluster in Eridanus II?	VERONICA LORA CASTELLANOS GUSTAVO RAMON BRUZUAL ALFONZO BERNARDO CERVANTES SODI et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2021
39	The miniJPAS survey: A preview of the Universe in 56 colors	TELMA GLORIA CASTRO ROMERO GUSTAVO RAMON BRUZUAL ALFONZO JOSE EDUARDO GONZALEZ MIRELES et al.	ASTRONOMY & ASTROPHYSICS	2021
40	Studying the ISM at similar to 10 pc scale in NGC7793 with MUSE I. Data description and properties of the ionised gas (vol 635, A134, 2020)	GUSTAVO RAMON BRUZUAL ALFONZO Lorenza Della Bruna Angela Adamo et al.	ASTRONOMY & ASTROPHYSICS	2021
41	Chronos: A NIR spectroscopic galaxy survey to probe the most fundamental stages of galaxy evolution	GUSTAVO RAMON BRUZUAL ALFONZO I. Ferreras M. Cropper et al.	EXPERIMENTAL ASTRONOMY	2021
42	To use or not to use synthetic stellar spectra in population synthesis models?	GUSTAVO RAMON BRUZUAL ALFONZO Paula R. T. Coelho Stephane Charlot	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2020
43	High-resolution Spectral Line Indices Useful for the Analysis of Stellar Populations	GUSTAVO RAMON BRUZUAL ALFONZO Rodríguez-Merino L.H. Mayya Y.D. et al.	ASTROPHYSICAL JOURNAL LETTERS	2020
44	Spatially Resolved Analysis of Neutral Winds, Stars, and Ionized Gas Kinematics with MEGARA/GTC: New Insights on the Nearby Galaxy UGC 10205	IRMA YOLANDA MARTINEZ DELGADO GUSTAVO RAMON BRUZUAL ALFONZO C. Catalan-Torrecilla et al.	ASTROPHYSICAL JOURNAL	2020
45	Studying the ISM at similar to 10 pc scale in NGC 7793 with MUSE: I. Data description and properties of the ionised gas	GUSTAVO RAMON BRUZUAL ALFONZO Lorenza Della Bruna Angela Adamo et al.	ASTRONOMY & ASTROPHYSICS	2020

GUSTAVO RAMON BRUZUAL ALFONZO

46	Early Low-mass Galaxies and Star-cluster Candidates at z similar to 6-9 Identified by the Gravitational-lensing Technique and Deep Optical/Near-infrared Imaging	GUSTAVO RAMON BRUZUAL ALFONZO Shotaro Kikuchihara Masami Ouchi et al.	ASTROPHYSICAL JOURNAL	2020
47	Clues on the history of early-type galaxies from SDSS spectra and GALEX photometry	GUSTAVO RAMON BRUZUAL ALFONZO A. Werle R. Cid Fernandes et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2020
48	A quantitative demonstration that stellar feedback locally regulates galaxy growth	JACOPO FRITZ GUSTAVO RAMON BRUZUAL ALFONZO Javier Zaragoza-Cardiel et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2020
49	MEGARA-IFU detection of extended He II λ 4686 nebular emission in the central region of NGC1569 and its ionization budget	GUSTAVO RAMON BRUZUAL ALFONZO Y. D. Mayya E. Carrasco et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2020
50	Modeling low mass stellar populations	GUSTAVO RAMON BRUZUAL ALFONZO Gladis C. Magris Fabiola Hernandez-Perez	Iau Symposium Proceedings Series	2019
51	From kpcs to the central parsec of NGC 1097: Feeding star formation and a black hole at the same time	GUSTAVO RAMON BRUZUAL ALFONZO Almudena Prieto M. Fernandez-Ontiveros J.A. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2019
52	Simultaneous analysis of SDSS spectra and GALEX photometry with STARLIGHT: method and early results	GUSTAVO RAMON BRUZUAL ALFONZO A. Werle R. Cid Fernandes et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2019
53	Spectroscopy of NGC 4258 Globular Cluster Candidates: Membership Confirmation and Kinematics	ROSA AMELIA GONZALEZ LOPEZ LIRA LAURENT RAYMOND LOINARD MARITZA ARLENE LARA LOPEZ et al.	ASTROPHYSICAL JOURNAL	2019
54	Parameter estimation for scarce stellar populations	GUSTAVO RAMON BRUZUAL ALFONZO BERNARDO CERVANTES SODI THEODOROS BITSAKIS et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2019

GUSTAVO RAMON BRUZUAL ALFONZO

55	Detection of the self-regulation of star formation in galaxy discs	JACOPO FRITZ GUSTAVO RAMON BRUZUAL ALFONZO Javier Zaragoza-Cardiel et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2019
56	Constraints on the production and escape of ionizing radiation from the emission-line spectra of metal-poor star-forming galaxies	GUSTAVO RAMON BRUZUAL ALFONZO CHRISTOPHE ROGER JACQUES MORISSET Plat A. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2019
57	Connecting traces of galaxy evolution: the missing core mass-morphological fine structure relation	OMAIRA GONZALEZ MARTIN GUSTAVO RAMON BRUZUAL ALFONZO P. Bonfini et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2018
58	Modelling dust rings in early-type galaxies through a sequence of radiative transfer simulations and 2D image fitting	OMAIRA GONZALEZ MARTIN JACOPO FRITZ GUSTAVO RAMON BRUZUAL ALFONZO et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2018
59	Stellar parameters with FASMA: a new spectral synthesis package	MARIA TSANTAKI GUSTAVO RAMON BRUZUAL ALFONZO D. T. Andreasen et al.	Iau Symposium Proceedings Series	2018
60	The Distribution and Ages of Star Clusters in the Small Magellanic Cloud: Constraints on the Interaction History of the Magellanic Clouds	THEODOROS BITSAKIS ROSA AMELIA GONZALEZ LOPEZ LIRA GUSTAVO RAMON BRUZUAL ALFONZO et al.	ASTROPHYSICAL JOURNAL	2018
61	Atmospheric stellar parameters for large surveys using FASMA, a new spectral synthesis package	GUSTAVO RAMON BRUZUAL ALFONZO M. Tsantaki D. T. Andreasen et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2018
62	The resolved star formation history of M51a through successive Bayesian marginalization	GUSTAVO RAMON BRUZUAL ALFONZO ROSA AMELIA GONZALEZ LOPEZ LIRA Eric E. Martinez-Garcia et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2018
63	Variations of the stellar initial mass function in semi-analytical models - II. The impact of cosmic ray regulation	GUSTAVO RAMON BRUZUAL ALFONZO Fabio Fontanot Gabriella De Lucia et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2018

GUSTAVO RAMON BRUZUAL ALFONZO

64	SILVERRUSH. V. Census of Ly α , [O III] λ 5007, H α , and [C II] 158 μ m Line Emission with $\sim$ 1000 LAEs at $z = 4.9-7.0$ Revealed with Subaru/HSC	GUSTAVO RAMON BRUZUAL ALFONZO Yuichi Harikane Masami Ouchi et al.	ASTROPHYSICAL JOURNAL	2018
65	Galaxy properties from J-PAS narrow-band photometry	GUSTAVO RAMON BRUZUAL ALFONZO Mejia-Narvaez, A. Magris, G. C. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2017
66	CHARACTERISTIC PARAMETERS OF THE STELLAR POPULATIONS IN THE MILKY WAY GALAXY	GUSTAVO RAMON BRUZUAL ALFONZO Alzate, J. A.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2017
67	PAGB STARS IN BINARY STELLAR POPULATION SYNTHESIS MODEL	GUSTAVO RAMON BRUZUAL ALFONZO Hernandez-Perez, F. C. Magris, G.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2017
68	GASP III. JO36: A Case of Multiple Environmental Effects at Play?	JACOPO FRITZ GUSTAVO RAMON BRUZUAL ALFONZO BERNARDO CERVANTES SODI et al.	ASTROPHYSICAL JOURNAL	2017
69	REMOVING BIASES IN RESOLVED STELLAR MASS MAPS OF GALAXY DISKS THROUGH SUCCESSIVE BAYESIAN MARGINALIZE	ROSA AMELIA GONZALEZ LOPEZ LIRA GUSTAVO RAMON BRUZUAL ALFONZO Martinez-Garcia, Eric E. et al.	ASTROPHYSICAL JOURNAL	2017
70	The Relation Between Globular Cluster Systems and Supermassive Black Holes in Spiral Galaxies: The Case Study of NGC 4258	ROSA AMELIA GONZALEZ LOPEZ LIRA LAURENT RAYMOND LOINARD GUSTAVO RAMON BRUZUAL ALFONZO et al.	ASTROPHYSICAL JOURNAL	2017
71	Variations of the stellar initial mass function in semi-analytical models: Implications for the mass assembly and the chemical enrichment of galaxies in the GAEA model	GUSTAVO RAMON BRUZUAL ALFONZO Fontanot, Fabio De Lucia, Gabriella et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2017
72	The challenging task of determining star formation rates: the case of a massive stellar burst in the brightest cluster galaxy of Phoenix galaxy cluster	GUSTAVO RAMON BRUZUAL ALFONZO Mittal, Rupal McDonald, M. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2017

GUSTAVO RAMON BRUZUAL ALFONZO

73	Modelling ultraviolet-line diagnostics of stars, the ionized and the neutral interstellar medium in star-forming galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Vidal-Garcia, A. Charlot, S. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2017
74	A Novel Method to Automatically Detect and Measure the Ages of Star Clusters in Nearby Galaxies: Application to the Large Magellanic Cloud	ROSA AMELIA GONZALEZ LOPEZ LIRA GUSTAVO RAMON BRUZUAL ALFONZO Bitsakis, T. et al.	ASTROPHYSICAL JOURNAL	2017
75	Pathways to quiescence: SHARDS view on the star formation histories of massive quiescent galaxies at $1.0 < z < 1.5$	GUSTAVO RAMON BRUZUAL ALFONZO Dominguez Sanchez, Helena Perez-Gonzalez, Pablo G. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2016
76	A comprehensive comparative test of seven widely used spectral synthesis models against multi-band photometry of young massive-star clusters	GUSTAVO RAMON BRUZUAL ALFONZO Wofford, A. Charlot, S. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2016
77	Is the escape velocity in star clusters linked to extended star formation histories? Using NGC 7252: W3 as a test case	GUSTAVO RAMON BRUZUAL ALFONZO Cabrera-Ziri, I. Bastian, N. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2016
78	Self-similarity in the chemical evolution of galaxies and the delay-time distribution of SNe Ia	GUSTAVO RAMON BRUZUAL ALFONZO Walcher, C.J. Yates, R.M. et al.	ASTRONOMY & ASTROPHYSICS	2016
79	Evolving sparse stellar populations	GUSTAVO RAMON BRUZUAL ALFONZO Gladis Magris C. Hernández-Pérez F.	Iau Symposium Proceedings Series	2016
80	Modelling the nebular emission from primeval to present-day star-forming galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Gutkin, Julia Charlot, Stephane	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2016
81	Strong gravitational lensing and the stellar IMF of early-type galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Leier, Dominik Ferreras, Ignacio et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2016
82	The stellar initial mass function at $0.9 < z < 1.5$	GUSTAVO RAMON BRUZUAL ALFONZO MartinNavarro, Ignacio PerezGonzalez, Pablo G. et al.	ASTROPHYSICAL JOURNAL LETTERS	2015

GUSTAVO RAMON BRUZUAL ALFONZO

83	Leaving the dark ages with Amiga	GUSTAVO RAMON BRUZUAL ALFONZO Manrique, Alberto SalvadorSole, Eduard et al.	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	2015
84	Consequences of bursty star formation on galaxy observables at high redshifts	GUSTAVO RAMON BRUZUAL ALFONZO Dominguez, Alberto Siana, Brian et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2015
85	Abundance patterns in early-type galaxies: Is there a "knee" in the $[Fe/H]$ vs. $[a/Fe]$ relation?	GUSTAVO RAMON BRUZUAL ALFONZO Walcher C.J. Coelho P.R.T. et al.	ASTRONOMY & ASTROPHYSICS	2015
86	Exploring the UV excess in star clusters of different mass	GUSTAVO RAMON BRUZUAL ALFONZO Hernández-Pérez, F. Gladis, M.C.	Iau Symposium Proceedings Series	2015
87	TP-AGB stars and population synthesis models	GUSTAVO RAMON BRUZUAL ALFONZO ROSA AMELIA GONZALEZ LOPEZ LIRA Charlot S. et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2014
88	Detecting halo substructure in the gaia era	LUIS ALBERTO AGUILAR CHIU GUSTAVO RAMON BRUZUAL ALFONZO JOSE OCTAVIO VALENZUELA TIJERINO et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2014
89	Chemoarchaeological downsizing in a hierarchical universe: Impact of a top-heavy IGIMF	GUSTAVO RAMON BRUZUAL ALFONZO Gargiulo, I. D. Cora, S. A. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2014
90	Constraining globular cluster formation through studies of young massive clusters - II. A single stellar population young massive cluster in NGC 34	GUSTAVO RAMON BRUZUAL ALFONZO Cabrera-Ziri, I. Bastian, N. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2014
91	Binary stars and the UVX in early-type galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Hernandez-Perez, Fabiola	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2014

GUSTAVO RAMON BRUZUAL ALFONZO

92	Revisiting binary stars in population synthesis models	GUSTAVO RAMON BRUZUAL ALFONZO Hernandez-Perez, Fabiola	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2013
93	SPIDER – VII. Revealing the stellar population content of massive early-type galaxies out to 8Re	GUSTAVO RAMON BRUZUAL ALFONZO La Barbera, F. Ferreras, I. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2012
94	The LF of TP-AGB stars in the LMC/SMC	GUSTAVO RAMON BRUZUAL ALFONZO Charlot S. Lópezlira R.G. et al.	Iau Symposium Proceedings Series	2012
95	On the recovery of galaxy properties from spectral fits	GUSTAVO RAMON BRUZUAL ALFONZO Magris G. Mateu C. et al.	Iau Symposium Proceedings Series	2012
96	Extreme Horizontal Branch Stars in Passively Evolving Early Type Galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Hernández-Pérez, F.	Iau Symposium Proceedings Series	2012
97	A Bayesian approach to quantify the uncertainties in the determination of galaxy properties derived from spectral fits	GUSTAVO RAMON BRUZUAL ALFONZO Magris C. G. Mateu C.	Iau Symposium Proceedings Series	2011
98	Conference summary	GUSTAVO RAMON BRUZUAL ALFONZO Gallagher J. Lonsdale C.	Iau Symposium Proceedings Series	2011
99	Modeling stellar populations near and far	GUSTAVO RAMON BRUZUAL ALFONZO	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2011
100	Uncertainties in the galaxy mass and age determination from inverse population synthesis models	GUSTAVO RAMON BRUZUAL ALFONZO Magris C.G. Mateu J.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2011

GUSTAVO RAMON BRUZUAL ALFONZO

101	Detecting stellar streams in the galactic halo with a modified GC3 method	GUSTAVO RAMON BRUZUAL ALFONZO LUIS ALBERTO AGUILAR CHIU JOSE OCTAVIO VALENZUELA TIJERINO et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2011
102	A stellar population synthesis model that includes binary interaction	GUSTAVO RAMON BRUZUAL ALFONZO Hernández F.C.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2011
103	High-redshift objects in dust environments	GUSTAVO RAMON BRUZUAL ALFONZO ROSA AMELIA GONZALEZ LOPEZ LIRA MARGARITA EUGENIA DEL SOCORRO ROSADO SOLIS et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2011
104	Tracers of stellar mass loss - I. Optical and near-IR colours and surface brightness fluctuations	ROSA AMELIA GONZALEZ LOPEZ LIRA GUSTAVO RAMON BRUZUAL ALFONZO JAVIER BALLESTEROS PAREDES et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2010
105	Preface	GUSTAVO RAMON BRUZUAL ALFONZO Charlot S.	Iau Symposium Proceedings Series	2009
106	Inverse population synthesis using a dynamical basis	GUSTAVO RAMON BRUZUAL ALFONZO Mateu J. Magris G.	Iau Symposium Proceedings Series	2009
107	Disentangling the star formation history recovery from galaxy spectra	GUSTAVO RAMON BRUZUAL ALFONZO Magris C. G. Mateu J. et al.	AIP Conference Proceedings	2009
108	PEGASE: A UV to NIR spectral evolution model of galaxies	GUSTAVO RAMON BRUZUAL ALFONZO	ASTRONOMY & ASTROPHYSICS	2009
109	Quest I variability survey. III. Light curve catalog update	GUSTAVO RAMON BRUZUAL ALFONZO Rengstorff A.W. Thompson D.L. et al.	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	2009
110	Triggered star formation in spiral arms	ROSA AMELIA GONZALEZ LOPEZ LIRA GUSTAVO RAMON BRUZUAL ALFONZO Martínez-García E.E.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2009

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111	Possible sources of UV radiation in elliptical galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Hernández F.C.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2009
112	TP-AGB stars and the mass of galaxies	GUSTAVO RAMON BRUZUAL ALFONZO	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2009
113	Revista Mexicana de Astronomía y Astrofísica: Serie de Conferencias: Preface	GUSTAVO RAMON BRUZUAL ALFONZO Briceño C.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2009
114	Physical interpretation of the near-infrared colours of low-redshift galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Eminian C. Kauffmann G. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2008
115	Spectral models for solar-scaled and α -enhanced stellar populations	GUSTAVO RAMON BRUZUAL ALFONZO Coelho P. Charlot S. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2007
116	High resolution spectral models for solar scaled and α -enhanced compositions	GUSTAVO RAMON BRUZUAL ALFONZO Coelho P. Charlot S. et al.	Iau Symposium Proceedings Series	2006
117	On TP-AGB stars and the mass of galaxies	GUSTAVO RAMON BRUZUAL ALFONZO	Iau Symposium Proceedings Series	2006
118	Studying stellar populations at high spectral resolution	GUSTAVO RAMON BRUZUAL ALFONZO	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2006

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119	The CIDA-UCM-Yale shallow survey for emission-line galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Bongiovanni A. Magris G. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2005
120	Erratum: Infrared surface brightness fluctuations of magellanic star clusters (Astrophysical Journal (2004) 611: (270))	ROSA AMELIA GONZALEZ LOPEZ LIRA GUSTAVO RAMON BRUZUAL ALFONZO Liu M.C.	ASTROPHYSICAL JOURNAL	2005
121	The elliptical galaxy NGC 720: An unequal-mass galaxy merger remnant	GUSTAVO RAMON BRUZUAL ALFONZO Rembold S.B. Pastoriza M.G.	ASTRONOMY & ASTROPHYSICS	2005
122	Infrared surface brightness fluctuations of magellanic star clusters	ROSA AMELIA GONZALEZ LOPEZ LIRA GUSTAVO RAMON BRUZUAL ALFONZO Liu M.C.	ASTROPHYSICAL JOURNAL	2004
123	New quasars detected via variability in the quest1 survey	GUSTAVO RAMON BRUZUAL ALFONZO Rengstorf A.W. Mufson S.L. et al.	ASTROPHYSICAL JOURNAL	2004
124	The quest RR Lyrae survey. I. The first catalog	GUSTAVO RAMON BRUZUAL ALFONZO Vivas A.K. Zinn R. et al.	ASTRONOMICAL JOURNAL	2004
125	Quest1 variability survey. II. variability determination criteria and 200k light curve catalog	GUSTAVO RAMON BRUZUAL ALFONZO Rengstorf A.W. Mufson S.L. et al.	ASTROPHYSICAL JOURNAL	2004
126	Spectroscopic dating of stellar populations from local star clusters to distant galaxies and the age of the Universe	GUSTAVO RAMON BRUZUAL ALFONZO	REVISTA MEXICANA DE FISICA	2003
127	ADEMIS: A library of evolutionary models for emission-line galaxies. I. Dust-free models	LUC JOSEPH AURELE BINETTE GUSTAVO RAMON BRUZUAL ALFONZO Magris C G.	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES	2003
128	Using spectroscopic data to disentangle stellar population properties	GUSTAVO RAMON BRUZUAL ALFONZO Cardiel N. Gorgas J. et al.	ASTRONOMY & ASTROPHYSICS	2003
129	Stellar population synthesis at the resolution of 2003	GUSTAVO RAMON BRUZUAL ALFONZO Charlot S.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2003
130	Biblioteca de modelos para el espectro de emisión en galaxias con formación estelar	GUSTAVO RAMON BRUZUAL ALFONZO LUC JOSEPH AURELE BINETTE Magris C.G.	REVISTA MEXICANA DE FISICA	2003
131	La edad de 47 Tucán: Un estudio comparativo	GUSTAVO RAMON BRUZUAL ALFONZO Nieves L.A. Magris C.G.	REVISTA MEXICANA DE FISICA	2003

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132	Determinación de la historia de la formación estelar en galaxias	GUSTAVO RAMON BRUZUAL ALFONZO Mateu J. Magris G.	REVISTA MEXICANA DE FISICA	2003
133	Stellar masses and star formation histories for 105 galaxies from the Sloan Digital Sky Survey	GUSTAVO RAMON BRUZUAL ALFONZO Kauffmann G. Heckman T.M. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2003
134	Stelib: A library of stellar spectra at R ~ 2000	GUSTAVO RAMON BRUZUAL ALFONZO Le Borgne J.-F. Pelló R. et al.	ASTRONOMY & ASTROPHYSICS	2003
135	A large-area CCD camera for the Schmidt telescope at the venezuelan national astronomical observatory	GUSTAVO RAMON BRUZUAL ALFONZO Baltay C. Snyder J.A. et al.	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC	2002
136	A standard stellar library for evolutionary synthesis: III. Metallicity calibration	GUSTAVO RAMON BRUZUAL ALFONZO Westera P. Lejeune T. et al.	ASTRONOMY & ASTROPHYSICS	2002
137	The Quest RR Lyrae Survey: Confirmation of the clump at 50 kiloparsecs and other overdensities in the outer halo	GUSTAVO RAMON BRUZUAL ALFONZO Vivas A.K. Zinn R. et al.	ASTROPHYSICAL JOURNAL	2001
138	Stellar populations in local and distant galaxies	GUSTAVO RAMON BRUZUAL ALFONZO	ASTROPHYSICS AND SPACE SCIENCE	2001
139	Interactions and the evolution of cluster galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Vílchez-Gómez R. Pelló R. et al.	ASTROPHYSICS AND SPACE SCIENCE	2001
140	An analytical model of galaxy formation	GUSTAVO RAMON BRUZUAL ALFONZO Salvador-Solé E. Manrique A. et al.	ASTROPHYSICS AND SPACE SCIENCE	2001
141	Discovery of the bright trans-Neptunian object 2000 EB173	GUSTAVO RAMON BRUZUAL ALFONZO Ferrin I. Rabinowitz D. et al.	ASTROPHYSICAL JOURNAL	2001
142	The low-redshift quasar-quasar correlation function from an extragalactic H α emission-line survey to $z = 0.4$	GUSTAVO RAMON BRUZUAL ALFONZO Sabbey C.N. Oemler A. et al.	ASTROPHYSICAL JOURNAL	2001
143	Near-infrared spectral features in single-aged stellar populations	GUSTAVO RAMON BRUZUAL ALFONZO Schiavon R.P. Barbuy B.	ASTROPHYSICAL JOURNAL	2000
144	Discovery of the optical transient of GRB 990308	GUSTAVO RAMON BRUZUAL ALFONZO Schaefer B.E. Snyder J.A. et al.	ASTROPHYSICAL JOURNAL	1999
145	Evolutionary properties of high redshift galaxies seen through cluster-lenses	GUSTAVO RAMON BRUZUAL ALFONZO Pelló R.	ASTROPHYSICS AND SPACE SCIENCE	1999

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146	Two multiple-imaged $z = 4.05$ galaxies in the cluster-lens Abell 2390	GUSTAVO RAMON BRUZUAL ALFONZO Pelló R. Kneib J.P. et al.	ASTRONOMY & ASTROPHYSICS	1999
147	High-redshift galaxies in the Hubble Deep Field - II. Colours and number counts	GUSTAVO RAMON BRUZUAL ALFONZO Pozzetti L. Madau P. et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	1998
148	Exploring cluster elliptical galaxies as cosmological standard rods	GUSTAVO RAMON BRUZUAL ALFONZO Bender R. Saglia R.P. et al.	ASTROPHYSICAL JOURNAL	1998
149	Identification and study of distant galaxies through cluster lenses	GUSTAVO RAMON BRUZUAL ALFONZO Pelló R. Kneib J.P.	ASTROPHYSICS AND SPACE SCIENCE	1998
150	Matching stellar population models to bulge globular clusters I	GUSTAVO RAMON BRUZUAL ALFONZO Barbuy B. Ortolani S. et al.	ASTRONOMICAL JOURNAL	1997
151	Identification of a high redshift cluster in the field of Q 2345+007 through deep BRIJK' photometry	GUSTAVO RAMON BRUZUAL ALFONZO Pelló R. Miralles J.M. et al.	ASTRONOMY & ASTROPHYSICS	1996
152	A data base for galaxy evolution modeling	GUSTAVO RAMON BRUZUAL ALFONZO Leitherer C. Alloin D. et al.	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC	1996
153	Pure luminosity evolution models for faint field galaxy samples	GUSTAVO RAMON BRUZUAL ALFONZO Pozzetti L. Zamorani G.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	1996
154	Redshift evolution of the stellar populations in elliptical galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Bender R. Ziegler B.	ASTROPHYSICAL JOURNAL	1996
155	Searching for evidence of spectral evolution of galaxies	GUSTAVO RAMON BRUZUAL ALFONZO	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	1996
156	A model for the chemical evolution of the solar neighborhood using metallicity dependent yields	MARIA LETICIA CARIGI DELGADO GUSTAVO RAMON BRUZUAL ALFONZO	SPACE SCIENCE REVIEWS	1994
157	Spectral evolution of stellar populations using isochrone synthesis	GUSTAVO RAMON BRUZUAL ALFONZO Charlot S.	ASTROPHYSICAL JOURNAL LETTERS	1993
158	Counter-evolution of faint field galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Koo D.C. Gronwall C.	ASTROPHYSICAL JOURNAL	1993

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159	Population synthesis and the ultraviolet spectrum of elliptical galaxies	GUSTAVO RAMON BRUZUAL ALFONZO Magris C. G.	ASTROPHYSICAL JOURNAL	1993
160	Infrared background models from galaxy evolution	GUSTAVO RAMON BRUZUAL ALFONZO	ADVANCES IN SPACE RESEARCH	1991
161	THE UV CONTINUUM SPECTRUM OF M81	GUSTAVO RAMON BRUZUAL ALFONZO MANUEL PEIMBERT SIERRA SILVIA LINDA TORRES CASTILLEJA	ASTROPHYSICAL JOURNAL	1982
162	Constraints on the production and escape of ionizing radiation from the emission-lines of metal-poor star-forming galaxies	GUSTAVO RAMON BRUZUAL ALFONZO CHRISTOPHE ROGER JACQUES MORISSET Plat A. et al.	Iau Symposium Proceedings Series	



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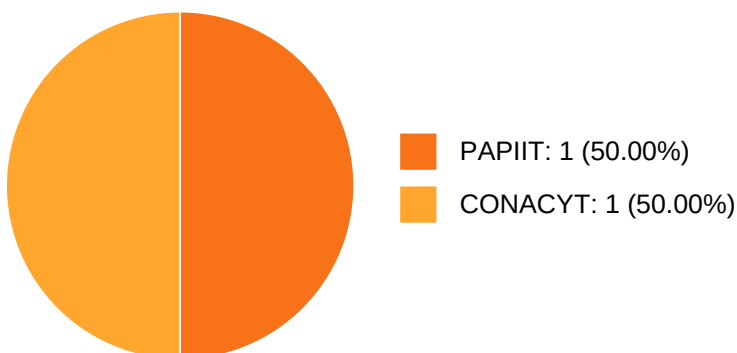
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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

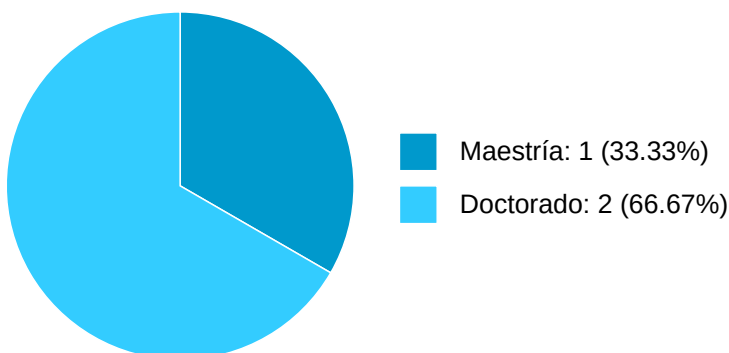


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Cúmulos jóvenes de las Nubes de Magallanes: la formación estelar estocástica a escrutinio.	GUSTAVO RAMON BRUZUAL ALFONZO	Recursos CONACYT	01-10-2016	01-10-2020
2	Redescubriendo nuestra Galaxia: explotación científica de Gaia.	GUSTAVO RAMON BRUZUAL ALFONZO	Recursos PAPIIT	01-01-2019	31-12-2021

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

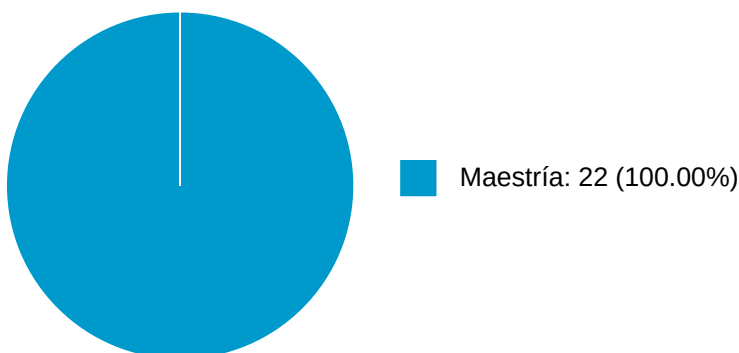


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Bayesian analysis of resolved stellar population	Tesis de Doctorado	GUSTAVO RAMON BRUZUAL ALFONZO,	Alzate Trujillo, Jairo Andrés,	Instituto de Radioastronomía y Astrofísica,	2021
2	Estimación de parámetros de poblaciones estelares con bajo número de estrellas	Tesis de Doctorado	GUSTAVO RAMON BRUZUAL ALFONZO,	BERNARDO CERVANTES SODI, Ramírez Siordia, Víctor Hugo,	Instituto de Radioastronomía y Astrofísica,	2019
3	Sobre la detección de galaxias satélites de la vía láctea con fotometría de gaia	Tesis de Maestría	GUSTAVO RAMON BRUZUAL ALFONZO,	Álzate Trujillo, Jairo Andrés,	Centro de Radioastronomía y Astrofísica en Morelia, Mich.,	2015

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	TEMAS SELECTOS DE ASTROFÍSICA DE LOS CAMPOS DE CONOCIMIENTO TEÓRICA, OBSERVACIONAL, CAMPOS PART	Instituto de Radioastronomía y Astrofísica	1	2024-2
2	Maestría	TEMAS SELECTOS DE ASTROFÍSICA DE LOS CAMPOS DE CONOCIMIENTO TEÓRICA, OBSERVACIONAL, CAMPOS PART	Instituto de Radioastronomía y Astrofísica	1	2023-2
3	Maestría	TEMAS SELECTOS DE ASTROFÍSICA DE LOS CAMPOS DE CONOCIMIENTO TEÓRICA, OBSERVACIONAL, CAMPOS PART POBLACIONES ESTELARES	Instituto de Astronomía	1	2023-1
4	Maestría	TEMAS SELECTOS DE ASTROFÍSICA DE LOS CAMPOS DE CONOCIMIENTO TEÓRICA, OBSERVACIONAL, CAMPOS PART	Instituto de Radioastronomía y Astrofísica	3	2022-1
5	Maestría	ASTRONOMÍA EXTRAGALÁCTICA Y COSMOLOGÍA	Instituto de Radioastronomía y Astrofísica	3	2021-2
6	Maestría	TEMAS SELECTOS DE ASTROFÍSICA DE LOS CAMPOS DE CONOCIMIENTO TEÓRICA, OBSERVACIONAL, CAMPOS PART	Instituto de Radioastronomía y Astrofísica	1	2021-1
7	Maestría	TEMAS SELECTOS DE ASTROFÍSICA DE LOS CAMPOS DE CONOCIMIENTO TEÓRICA, OBSERVACIONAL, CAMPOS PART	Instituto de Radioastronomía y Astrofísica	1	2020-1

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8	Maestría	ASTRONOMÍAEXTRAGALÁCTICA Y COSMOLOGÍA	Instituto de Radioastronomía y Astrofísica	4	2019-1
9	Maestría	ASTRONOMÍAEXTRAGALÁCTICA Y COSMOLOGÍA	Instituto de Radioastronomía y Astrofísica	2	2018-1
10	Maestría	TEMAS SELECTOS DE ASTROFÍSICA DE LOS CAMPOS DE CONOCIMIENTO TEOR,OBSV,CPAR	Instituto de Radioastronomía y Astrofísica	2	2018-1
11	Maestría	ASTRONOMIA EXTRAGALACTICA Y COSMOLOGIA-318588	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	2	2017-1
12	Maestría	SEMINARIO DE INVESTIGACION III	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	1	2015-1
13	Maestría	ASTRONOMIA EXTRAGALACTICA Y COSMOLOGIA	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	1	2015-1
14	Maestría	TEMAS SELECTOS DE ASTROFISICA	Instituto de Astronomía	1	2014-2
15	Maestría	SEMINARIO DE GRADUACION	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	2	2014-2
16	Maestría	ASTROFISICA TEORICA - PROBLEMAS CONTEMPORANEOS DE ASTRONOMIA EXTRAGALACTICA	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	3	2014-2
17	Maestría	ASTRONOMIA EXTRAGALACTICA Y COSMOLOGIA	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	6	2014-1
18	Maestría	SEMINARIO DE INVESTIGACION II	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	2	2014-1
19	Maestría	SEMINARIO DE INVESTIGACION I	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	1	2013-2
20	Maestría	TEMAS SELECTOS DE ASTROFISICA	Instituto de Astronomía	3	2013-2

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21	Maestría	ASTRONOMIA EXTRAGALACTICA Y COSMOLOGIA	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	8	2013-1
22	Maestría	ASTRONOMIA EXTRAGALACTICA Y COSMOLOGIA	Centro de Radioastronomía y Astrofísica en Morelia, Mich.	5	2012-1



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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	2008-2025
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