

# Curriculum Vitae:

Daniel Rosa González

Puebla, March 14, 2024



## Curriculum Vitae:

### Personal details:

**Surname:** Rosa González                      **Name:** Daniel.  
**Date of birth:** 18<sup>th</sup> April 1969.              **Nationality:** Spanish

**Present address:**  
 Coordinación de Astrofísica  
 Instituto Nacional de Astrofísica Óptica y Electrónica (INAOE).  
 Luis Enrique Erro No. 1 Tonantzintla, Puebla, C.P. 72840.  
 Apdo Postal 51 y 216. Pue., MEXICO

**e-mail:** danrosa@inaoep.mx                      **RFC:** ROGD690418 – LK5

**Phone:** +52-222-2472011 or 2663100 (extn 1309)

**ORCID:** <https://orcid.org/0000-0003-1327-0838>

### Present Position:

**Researcher, Titular - B:** August 2015 –  
 Instituto Nacional de Astrofísica Óptica y Electrónica (INAOE).  
**SNI – II ; CVU 123728**  
**Head of Astrophysical Postgraduate Studies at INAOE:** January 2019 –

### Previous Employment:

1. **Researcher, Titular - A:** August 2009 – July 2015  
 INAOE, México.
2. **Research Associate:** October 2004 – July 2009  
 INAOE, México.
3. **Research Associate:** September 2002 – September 2004  
 Imperial College, United Kingdom.  
**Project:** Probing the Origin of the Extragalactic Background Radiation.  
**Coordinator:** Professor Michael Rowan-Robinson.

## Education:

1. **PhD Astronomy:** 17 May 2002. INAOE, México.  
**Thesis name:** Searching for Galaxies at High Redshift  
**Supervisors:** Dr Elena Terlevich (INAOE) & Dr Roberto Terlevich (IoA)
2. **MSc Astronomy:** 10 July 1998. INAOE, México. By examination.
3. **MSc Radio Astronomy:** 18 December 1996. Jodrell Bank, University of Manchester. United Kingdom.  
**Thesis name:** The Water Maser Envelope of IK Tau.  
**Supervisor:** Dr Jim Cohen
4. **BSc Astrophysics (5 year programme):** 17 February 1993. La Laguna University. Spain.

## Research Grants:

1. Analizando Objetos Extragalácticos Extremos con GTC, GTM, y HAWC
  - (a) Ciencia Básica #A1-S-22784, PI **D. Rosa-González**
  - (b) Funded by: **Consejo Nacional de Ciencia y Tecnología, México**
  - (c) Amount Awarded: **999,400 MXN**
  - (d) Period of Grant Award: **2019 – 2023**
  - (e) Postdoc: Dr. David Fernández Arenas, from 01/01/2021 to 31/06/2022
2. Estudio Detallado de Galaxias Cercanas: Evolución e Implicaciones Cosmológicas
  - (a) Ciencia Básica #167281, PI **D. Rosa-González**
  - (b) Funded by: **Consejo Nacional de Ciencia y Tecnología, México**
  - (c) Amount Awarded: **481,000 MXN**
  - (d) Period of Grant Award: **2011 – 2014**
3. Revelando la Naturaleza de Fuentes Compactas de Rayos-X en Galaxias Azules
  - (a) Ciencia Básica #49942, PI **D. Rosa-González**
  - (b) Funded by: **Consejo Nacional de Ciencia y Tecnología, México**
  - (c) Amount Awarded: **250,000 MXN**
  - (d) Period of Grant Award: **2006 – 2010**

Refereed publications:

1. **Precise measurements of TeV Halos around Geminga and Monogem pulsars with HAWC**  
HAWC collaboration  
2024, submitted to ApJ
2. **XMM-Newton 1.75 Ms Ultra Narrow Deep Field II: X-ray Spectral Analysis of the Brightest AGN Population**  
M. Elías Chávez, A. L. Longinotti, Y. Krongold, **D. Rosa González**,  
C. Vignali, S. Mathur, T. Miyaji, Y. D. Mayya, F. Nicastro  
2024, submitted to MNRAS
3. **Combined Dark Matter Searches Towards Dwarf Spheroidal Galaxies with FERMI-LAT, HAWC, H.E.S.S., MAGIC, and VERITAS**  
Fermi, H.E.S.S., MAGIC, VERITAS and HAWC collaborations  
2024, submitted to JCAP
4. **Limits on the Diffuse Gamma-Ray Background above 10 TeV with HAWC**  
HAWC collaboration  
2024, submitted to Physical Review Letters (arXiv:2209.08106)
5. **Exploring the Coronal Magnetic Field with Galactic Cosmic Rays**  
HAWC collaboration  
2024, accepted by ApJ
6. **Search for Decaying Dark Matter in the Virgo Cluster of Galaxies with HAWC**  
HAWC collaboration  
2024, Physical Review D, 109, 4, 043034
7. **Ages and Metallicities of Globular Clusters in M81 Using GTC/OSIRIS Spectra**  
L. Lomelí Nuñez, Y.D. Mayya, L.H. Rodríguez Merino, P.A. Ovando,  
J. A. Alzate, **D. Rosa González**, B. Cuevas Otahola, G. Bruzual,  
A. Cortesi, V.M.A Gómez González and C. G. Escudero  
2024, MNRAS, 528, 1445
8. **Galactic Gamma-Ray Diffuse Emission at TeV energies with HAWC Data**  
HAWC collaboration  
2024, ApJ, 961, 104

9. **High-Altitude Characterization of the Hunga Pressure Wave with Cosmic Rays by the HAWC Observatory**  
HAWC collaboration  
2024, *Advances in Space Research*, 73, 1, 1083
10. **Statistical Redshift of the Very High-Energy Blazar S5 0716+714**  
A. Pichel, C. Donzelli, H. Muriel, A.C. Rovero, **D. Rosa González**,  
O. Vega, I. Aretxaga, J. Becerra González, E. Terlevich, R. Terlevich,  
and J. Méndez-Abreu  
2023, *A&A*, 680, 52
11. **An Optimized Search for Dark Matter in the Galactic Halo with HAWC**  
HAWC collaboration  
2023, *Journal of Cosmology and Astroparticle Physics*, 12(2023)038
12. **HAWC Study of Very High Energy Gamma-Ray Spectrum of J1844–034**  
HAWC collaboration,  
2023, *ApJ*, 954, 205
13. **The TeV Sun Rises: Discovery of a Steady Flux of Solar Gamma Rays with HAWC**  
HAWC collaboration  
2023, *Physical Review Letters*, 131, 051201
14. **The High-Altitude Water Cherenkov (HAWC) Observatory in México: The Primary Detector**  
HAWC collaboration  
2023, *Nuclear Inst. and Methods in Physics Research*, A., 1052, 168253
15. **The Stellar Population Responsible for a Kiloparsec Size Superbubble Seen in the JWST *Phantom* Images of NGC 628**  
Y. D. Mayya, J. A. Alzate, L. Lomelí Núñez, J. Zaragoza Cardiel,  
V. M. A. Gómez González, S. Silich, D. Fernández Arenas, O. Vega,  
P. A. Ovando, L. H. Rodríguez, **D. Rosa González**, A. Luna,  
M. Zamora Avilés and F. Rosales Ortega  
2023, *MNRAS*, 521, 5492
16. **Searching for TeV Dark Matter in Irregular Dwarf Galaxies with HAWC Observatory**  
HAWC collaboration  
2023, *ApJ*, 945, 25

17. **Spatially-Resolved Properties of the Ionized Gas of the Metal-Poor HII Galaxy J084220+115000 with MEGARA IFU Spectroscopy**  
D. Fernández Arenas, E. Carrasco, R. Terlevich, E. Terlevich, R. Amorín, F. Bresolin, R. Chávez, A. L. González Morán, **D. Rosa González**, Y. D. Mayya, O. Vega, J. Zaragoza Cardiel, J. Méndez-Abreu, R. Izazaga Pérez, A. Gil de Paz, J. Gallego, J. Iglesias Páramo, M.L. García Vargas, P. Gómez Alvarez, A. Castillo Morales, N. Cardiel, S. Pascual, and A. Pérez Calpena  
2023, MNRAS, 519, 422
18. **HAWC Detection of a TeV Halo Candidate Surrounding a Radio-Quiet Pulsar**  
HAWC collaboration  
2023, ApJL, 944, 29
19. **Search for Gamma-Ray and Neutrino Coincidences Using HAWC and ANTARES Data**  
HAWC & ANTARES collaborations  
2023, ApJ, 944, 166
20. **Detailed Analysis of the TeV -ray Sources 3HWC J1928+178, 3HWC J1930+188 and the New Source HAWC J1932+192**  
HAWC collaboration  
2023, ApJ, 942, 96
21. **Constrains on the Very High Energy Gamma-ray Emission from Short GRBs with HAWC**  
HAWC collaboration  
2022, ApJ, 936, 126
22.  **$\gamma$ -ray Emission from Classical Nova V392 Per: Measurements from Fermi and HAWC**  
HAWC collaboration  
2022, ApJ, 940, 141
23. **Emission Line Galaxies in the SHARDS Frontier Fields II: Escape Fractions of Merging Galaxies at redshifts  $2 < z < 3.5$**   
A. Griffiths, C.J. Conselice, L. Ferreira, D. Ceverino, P. G. Pérez-González, O. Vega, **D. Rosa-González**, A. M. Koekemoer, D. Marchesini, J. M. Rodríguez Espinosa, L. Rodríguez-Muñoz, B. Alcalde Pampliega, D. Schaerer, and E. Terlevich  
2022, ApJ, 941, 181
24. **Validation of Standardized Data Formats and Tools for Ground-Level Particle-Based  $\gamma$ -Ray Observatories**  
HAWC collaboration  
2022, Astronomy & Astrophysics, 667, 36

25. **Study of the Very High Energy Emission of M87 through its Broadband Spectral Energy Distribution**  
HAWC collaboration  
Corresponding authors: F. Ureña Mena, A. Carramiñana, A. L. Longinotti & **D. Rosa González**  
2022, ApJ, 934, 158
26. **Gamma/Hadron Separation with the HAWC Observatory**  
HAWC collaboration  
2022, Nuc. Inst. and Meth. A, 1039, 166984
27. **Probing the Extragalactic Mid-Infrared Background with HAWC**  
HAWC collaboration  
2022, ApJ, 933, 223
28. **The Dense Gas Mass Fraction and the Relationship to Star Formation in M51**  
M. Heyer, B. Gregg, D. Calzetti, B. G. Elmegreen, R. Kennicutt, A. Adamo, A. S. Evans, K. Grasha, J. D. Lowenthal, G. Narayanan, **D. Rosa González**, F.P. Schloerb, Y. Tang, P. Teuben, O. Vega, W. F. Wall, and M. S. Yun  
2022, ApJ, 930, 170
29. **Long-term Spectra of the Blazars Mrk 421 and Mrk 501 at TeV Energies Seen by HAWC**  
HAWC collaboration  
Corresponding authors: A. Carramiñana, S. Coutiño de León, A. L. Longinotti & **D. Rosa-González**  
2022, ApJ, 929, 125
30. **HAWC Study of Ultra-High-Energy Spectrum of MGRO J1908+06**  
HAWC collaboration  
2022, ApJ, 928, 116
31. **The Cosmic Ray Spectrum of Protons Plus Helium Nuclei between 6 TeV and 158 TeV from HAWC Data**  
HAWC collaboration  
2022, Physical Review D, 105, 063021
32. **nProFit: a Tool for Fitting the Surface Brightness Profiles of Star Clusters with Dynamical Models**  
B. Cuevas-Otahola, Y. D. Mayya, I. Puerari, & **D. Rosa-González**  
2022, PASP, 134, 024502
33. **Characterization of the Background for a Neutrino Search with the HAWC Observatory**  
HAWC collaboration  
2022, Astroparticle Physics, 137, 102670



34. **Luminosity Function of Globular Clusters in Five Nearby Spiral Galaxies Using HST/ACS images**  
L. Lomelí-Núñez, Y.D. Mayya, L.H. Rodríguez-Merino, P.A. Ovando, & **D. Rosa-González**  
2022, MNRAS, 509, 180
35. **Cold Molecular Gas in Merger Remnants II: The Properties of Dense Molecular Gas**  
Junko Ueda, Daisuke Iono, Min S. Yun, Tomonari Michiyama, Yoshimasa Watanabe, Ronald L. Snell, **Daniel Rosa González**, Toshiki Saito, Olga Vega, & Takuji Yamashita  
2021, ApJ, 257, 57
36. **Emission Line Galaxies in the SHARDS Frontier Fields I: Candidate Selection and the Discovery of Bursty H $\alpha$  Emitters**  
A. Griffiths, C.J. Conselice, L. Ferreira, D. Ceverino, **D. Rosa-González**, M. Huertas Company, B. Alcalde Pampliega, P. G. Pérez González, H. Domínguez Sánchez, & O. Vega  
2021, MNRAS, 508, 3860
37. **X-ray Sources in the 1.75 Ms Ultra Narrow Deep Field Observed by XMM-Newton**  
M. Elías-Chávez, A. L. Longinotti, Y. Krongold, C. Vignali, F. Nicastro, **D. Rosa-González**, Y. D. Mayya & S. Mathur  
2021, ApJ, 919, 18
38. **Probing the Sea of Cosmic Rays by Measuring Gamma-Ray Emission from Passive Giant Molecular Clouds with HAWC**  
HAWC collaboration  
2021, ApJ, 914, 106
39. **TeV emission of Galactic Plane Sources with HAWC and H.E.S.S.**  
HAWC & H.E.S.S. collaborations  
2021, ApJ, 917, 6
40. **HAWC as a Ground-Based Space Weather Observatory**  
HAWC collaboration  
2021, Solar Physics, 296, 89
41. **HAWC Search for High-Mass Microquasars**  
HAWC collaboration  
2021, ApJ Letters, 912, 4
42. **Spectrum and Morphology of the Very High Energy  $\gamma$ -Ray Source HAWC J2019+368**  
HAWC collaboration  
2021, ApJ, 911, 143

43. **Acceleration of Very High Energy Cosmic Rays in the Cygnus Cocoon as Revealed by HAWC Observations**  
HAWC collaboration  
2021, *Nature Astronomy*, 5, 465
44. **Evidence that Ultra-High-Energy Gamma Rays are a Universal Feature Near Powerful Pulsars**  
HAWC collaboration  
2021, *ApJ Letters*, 911, 27
45. **A Survey of Active Galaxies at TeV Photon Energies with the HAWC Gamma-ray Observatory**  
HAWC collaboration  
Corresponding authors: A. Carramiñana, S. Coutiño de León, A. L. Longinotti and **D. Rosa-González**  
2021, *ApJ*, 907, 67
46. **Evidence of 200 TeV Photons from HAWC J1825-134:  $\gamma$ -ray Signature of PeV Acceleration in the Galaxy**  
HAWC collaboration  
2021, *ApJ Letters*, 907, 30
47. **Multimessenger Gamma-ray and Neutrino Coincidence Alerts Using HAWC and IceCube sub-Threshold Data**  
HAWC & IceCube collaborations  
2021, *ApJ*, 906, 63
48. **New Observations with Gemini and GTC of the VHE Blazar KUV 00311-1938: about its Redshift and Surroundings**  
A. Pichel, C. Donzelli, **D. Rosa-González**, H. Muriel, M. Fernández Alonso, A.C. Rovero, Y.D. Mayya, I. Aretxaga, J. Becerra González, A. Carramiñana, J. Méndez-Abreu, O. Vega, E. Terlevich, & R.J. Terlevich  
2021, *PASP*, 133, 4102
49. **Mass-Radius Relation of Intermediate-Age Disk Super Star Clusters of M82**  
B. Cuevas-Otahola, Y. D. Mayya, I. Puerari & **D. Rosa-González**  
2021, *MNRAS*, 500, 4422
50. **3HWC: The Third HAWC Catalog of Very-High-Energy Gamma-ray Sources**  
HAWC collaboration  
2020, *ApJ*, 905, 76
51. **HAWC and Fermi-LAT Detection of Extended Emission from the Unidentified Source 2HWC J2006+341**  
HAWC collaboration  
2020, *ApJL*, 903, 14

52. **A Quantitative Demonstration that Stellar Feedback Regulates Galaxy Growth**  
J. Zaragoza-Cardiel, J. Fritz, I. Aretxaga, Y. D. Mayya, **D. Rosa-González**,  
J. E. Beckman, G. Bruzual, & S. Charlot  
2020, MNRAS, 499, 1172
53. **MEGARA-IFU Detection of Extended HeII4686 Nebular Emission in the Central Region of NGC1569 and its Ionization Budget**  
Y. D. Mayya, E. Carrasco, V.M.A. Gómez-González, J. Zaragoza-Cardiel,  
A. Gil de Paz, P. A. Ovando, M. Sánchez-Cruces, L. Lomelí Núñez,  
L. Rodríguez-Merino, **D. Rosa-González**, S. Silich, G. Tenorio-Tagle,  
G. Bruzual, S. Charlot, R. Terlevich, E. Terlevich, O. Vega, J. Gallego,  
J. Iglesias-Páramo, A. Castillo-Morales, M. L. García-Vargas, P. Gómez-  
Alvarez, S. Pascual, & A. Pérez-Calpena  
2020, MNRAS, 498, 1496
54. **HAWC J2227+610 and its Association with G106.3+2.7, a New Potential Galactic PeVatron**  
HAWC collaboration  
2020, ApJ Letters, 896, 2
55. **Search for Gamma-ray Spectral Lines from Dark Matter Annihilation in Dwarf Galaxies with the High-Altitude Water Cherenkov Observatory**  
HAWC collaboration  
2020, Physical Review D, 101, 10
56. **Constraints on Lorentz Invariance Violation from HAWC Observations of Gamma Rays above 100 TeV**  
HAWC collaboration  
2020, Physical Review Letters, 124, 131101
57. **Wolf-Rayet Stars in M81 Using GTC/OSIRIS: 7 New Detections, Analysis and Classification of the Full Sample**  
V. M. A. Gómez-González, Y. D. Mayya, **D. Rosa-González**,  
L. H. Rodríguez-Merino, J. A. Toalá & C. Alvarez  
2020, MNRAS, 493, 3879
58. **Constraining the Local Burst Rate Density of Primordial Black Holes with HAWC**  
HAWC collaboration  
2020, Journal of Cosmology and Astroparticle Physics, 04, 026
59. **Constraints on the Emission of Gamma Rays from M31 with HAWC**  
HAWC collaboration  
2020, ApJ, 893, 16

60. **Structural Analysis of Disk Super Star Clusters of M82: Size and Profile Shape at Intermediate Ages**  
B. Cuevas-Otahola, Y. D. Mayya, I. Puerari & **D. Rosa-González**  
2020, MNRAS, 492,993
61. **Multiple Galactic Sources with > 50 TeV Emission Detected by HAWC**  
HAWC collaboration  
2020, Physical Review Letters, 124, 021102
62. **Searching for Dark Matter Sub-structure with HAWC**  
HAWC collaboration  
2019, Journal of Cosmology and Astroparticle Physics, 07, 022
63. **Measurement of the Crab Nebula at the Highest Energies with HAWC**  
HAWC collaboration  
2019, ApJ, 881, 134
64. **Direct Detection of the Self-Regulation of Star Formation in Galaxy Discs**  
J. Zaragoza-Cardiel, J. Fritz, I. Aretxaga, Y. D. Mayya, **D. Rosa-González**,  
J. E. Beckman, G. Bruzual, & S. Charlot  
2019, MNRAS, 487, L61
65. **MAGIC and Fermi-LAT Gamma-ray Results on Unassociated HAWC Sources**  
MAGIC, Fermi-LAT & HAWC collaborations  
2019, MNRAS, 485, 356
66. **All-Sky Measurement of the Anisotropy of Cosmic Rays at 10 TeV and Mapping of the Local Interstellar Magnetic Field**  
HAWC & IceCube collaborations  
2019, ApJ, 871, 96
67. **New GTC Spectroscopic Data and a Statistical Study to Better Constrain the Redshift of the BL Lac RGB J2243+203**  
**D. Rosa González**, H. Muriel, Y. D. Mayya, I. Aretxaga, J. Becerra  
González, A. Carramiñana, J. Méndez-Abreu, O. Vega, E. Terlevich,  
S. Coutiño de León, A. Furniss, A. L. Longinotti, R. J. Terlevich, A. C. Pichel,  
A. C. Rovero, & C. Donzelli  
2019, MNRAS, 482, 5422

68. **Constraints on Spin-Dependent Dark Matter Scattering with Long-Lived Mediators from TeV Observations of the Sun with HAWC**  
HAWC collaboration  
2018, *Physical Review D*, Volume 98, Issue 12, id.123012
69. **First HAWC Observations of the Sun Constrain Steady TeV Gamma-Ray Emission**  
HAWC collaboration  
2018, *Physical Review D*, Volume 98, Issue 12, id.123011
70. **VERITAS and Fermi-LAT Observations of TeV Gamma-Ray Sources Discovered by HAWC in the 2HWC Catalog**  
VERITAS, Fermi-LAT & HAWC collaborations  
2018, *ApJ*, 866, 24
71. **Early Science with the Large Millimeter Telescope: an Energy-Driven Wind Revealed by Massive Molecular and Fast X-ray Outflows in the Seyfert Galaxy IRAS17020+4544**  
A. L. Longinotti, O. Vega, Y. Krongold-Herrera, I. Aretxaga, M. Yun, V. Chavyushan, C. Feruglio, A. Gomez-Ruiz, J. León Tavares, M. Giroletti, M. Guainazzi, J. Kotilainen, F. Panessa, L. Zapata, I. Cruz-González, **D. Rosa-González**, A. Carramiñana, L. Carrasco, E. Costantini, D. Dultzin, J. Guichard, A. Montaña, I. Puerari and M. Santos-Lleo  
2018, *ApJ Letters*, 867, 11
72. **Very High Energy Particle Acceleration Powered by the Jets of SS 433**  
HAWC collaboration  
2018, *Nature*, 562, 82
73. **Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC**  
HAWC collaboration  
2018, *ApJ*, 865, 57
74. **Multimessenger Observations of a Flaring Blazar Coincident with High-Energy Neutrino IceCube-170922A**  
Including HAWC collaboration  
2018, *Science*, 361, 146
75. **Search for Dark Matter Gamma-ray Emission from the Andromeda Galaxy with the High-Altitude Water Cherenkov Observatory**  
HAWC Collaboration  
2018, *Journal of Cosmology and Astroparticle Physics*, 06, 043

76. **Observations of the Missing Baryons in the Warm-Hot Intergalactic Medium**  
F. Nicastro, J. Kaastra, Y. Krongold, S. Borgani, E. Branchini, R. Cen, C.W. Danforth, M. Elvis, F. Fiore, A. Gupta, S. Mathur, Y. D. Mayya, F. Paerels, L. Piro, **D. Rosa González**, J. Schaye, J.M. Shull, J. Torres Zafra, N. Wijers, and L. Zappacosta  
2018, *Nature*, 558, 406
77. **Constraining the  $\bar{p}/p$  Ratio in TeV Cosmic Rays with Observations of the Moon Shadow by HAWC**  
HAWC collaboration  
2018, *Physical Review D*, 97, 102005
78. **A Search for Dark Matter in the Galactic Halo with HAWC**  
HAWC collaboration  
2018, *Journal of Cosmology and Astroparticle Physics*, 02, 049
79. **Data Acquisition Architecture and Online Processing System for the HAWC Gamma-Ray Observatory**  
HAWC collaboration  
2018, *Nuclear Instruments and Methods in Physics Research*, 888, 138
80. **Dark Matter Limits from Dwarf Spheroidal Galaxies with the HAWC Gamma-Ray Observatory**  
HAWC collaboration  
2018, *ApJ*, 853, 154
81. **Spatially Resolved Dust, Gas, and Star Formation in the Dwarf Magellanic Irregular NGC 4449**  
D. Calzetti, G. Wilson, B.T. Draine, H. Roussel, K.E. Johnson, M.H. Heyer, W. Wall, K. Grasha, A. Battisti, J.E. Andrews, A. Kirkpatrick, **D. Rosa González**, O. Vega, J. Puschnig, M. Yun, G. Ostlin, A.S. Evans, Y. Tang, and J. Lowenthal  
2018, *ApJ*, 852, 106
82. **A Dusty Star-Forming Galaxy at  $z = 6$  Revealed by Strong Gravitational Lensing**  
J. A. Zavala, A. Montaña, D. H. Hughes, M. S. Yun, R. J. Ivison, E. Valiante, D. Wilner, J. Spilker, I. Aretxaga, S. Eales, V. Avila-Reese, M. Chávez, A. Cooray, H. Dannerbauer, J. S. Dunlop, L. Dunne, A. I. Gómez-Ruiz, M. J. Michalowski, G. Narayanan, H. Nayyeri, I. Oteo, **D. Rosa González**, D. Sánchez-Arguelles, S. Serjeant, M. W. L. Smith, E. Terlevich, O. Vega, A. Villalba, P. van der Werf, G. W. Wilson, and M. Zeballos  
2018, *Nature Astronomy*, 2, 56

83. **Multiwavelength Follow-Up of a Rare IceCube Neutrino Multiplet**  
Including HAWC collaboration  
2017, *Astronomy & Astrophysics*, 607, 115
84. **All-Particle Cosmic Ray Energy Spectrum Measured by the HAWC Experiment from 10 to 500 TeV**  
HAWC collaboration  
2017, *Physical Review D*, 96, 122001
85. **Extended Gamma-Ray Sources around Pulsars Constrain the Origin of the Positron Flux at Earth**  
HAWC collaboration  
2017, *Science*, 358, 911
86. **SHARDS Frontier-Fields: Physical Properties of a Low Mass Lyman-alpha Emitter at  $z=5.75$**   
A. Hernán-Caballero, P. G. Pérez-González, J. M. Diego, D. Lagattuta, J. Richard, D. Schaerer, A. Alonso-Herrero, R. A. Marino, P. Sklias, B. Alcalde-Pampliega, A. Cava, H. Dannerbauer, H. Domínguez-Sánchez, C. Eliche-Moral, P. Esquej, M. Huertas-Company, R. Marques-Chaves, I. Pérez-Fournon, T. Rawle, J. M. Rodríguez Espinosa, **D. Rosa González**, and W. Rujopakarn  
2017, *ApJ*, 849, 82
87. **Multi-Messenger Observations of a Binary Neutron Star Merger**  
Including HAWC collaboration  
2017, *ApJ Letters*, 848, L12
88. **Optical/Near-IR Spatially Resolved Study of the H II galaxy Tol 02**  
A. Torres Campos, E. Terlevich, **D. Rosa González**, R. Terlevich, E. Telles, and A. I. Díaz  
2017, *MNRAS*, 471, 2829
89. **The HAWC Real-Time Flare Monitor for Rapid Detection of Transient Events**  
HAWC collaboration  
2017, *ApJ*, 843, 116
90. **Search for Very-High-Energy Emission from Gamma-ray Bursts Using the First 18 Months of Data from the HAWC Gamma-Ray Observatory**  
HAWC collaboration  
2017, *ApJ*, 843, 88
91. **The 2HWC HAWC Observatory Gamma Ray Catalog**  
HAWC collaboration  
2017, *ApJ*, 843, 40

92. **Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory**  
HAWC collaboration  
2017, ApJ, 843, 39
93. **Search for Very High Energy Gamma Rays from the Northern Fermi Bubble Region with HAWC**  
HAWC collaboration  
2017, ApJ, 842, 85
94. **Daily Monitoring of TeV Gamma-Ray Emission from Mrk 421, Mrk 501, and the Crab Nebula with HAWC**  
HAWC collaboration  
2017, ApJ, 841, 100
95. **Early Science with the Large Millimeter Telescope: Detection of Dust Emission in Multiple Images of a Normal Galaxy at  $z \sim 4$  Lensed by a Frontier Field Cluster**  
A. Pope, A. Montaña, A. Battisti, M. Limousin, D. Marchesini, G. W. Wilson, S. Alberts, I. Aretxaga, V. Avila-Reese, G. Brammer, H. Bravo-Alfaro, D. Calzetti, R. Chary, R. Cybulski, M. Giavalisco, D. Hughes, E. Keller, A. Kirkpatrick, I. Labbe, D. Lange-Vagle, J. Lowenthal, E. Murphy, P. Oesch, **D. Rosa González**, Sánchez-Arguelles, M. Stefanon, O. Vega, D. K. Whitaker, C. C. Williams, M. Yun, J. Zavala, and M. Zeballos  
2017, ApJ, 838, 137
96. **On the Redshifts of the BL Lac 3FGL J0909.0+2310 and its Close Companion**  
**D. Rosa González**, S. Coutiño de León, Y. D. Mayya, A. Carramiñana, I. Aretxaga, J. Becerra González, A. Furniss, E. Terlevich, O. Vega, J. Méndez-Abreu, J. León Tavares, A. L. Longinotti, and R. Terlevich  
2017, MNRAS, 466, 540
97. **Early Science with the Large Millimeter Telescope: Discovery of the CO(1-0) Emission Line in the Ring Galaxy, VII Zw466**  
O. Ivy Wong, O. Vega, D. Sánchez-Arguelles, G. Narayanan, W. F. Wall, M.A. Zwaan, **D. Rosa González**, M. Zeballos, K. Bekki, D. Mayya, A. Montaña, and A. Chung  
2017, MNRAS, 466, 574
98. **Wolf-Rayet stars in M81: Detection and Characterization Using GTC/OSIRIS Spectra and HST/ACS Images**  
V. M. A. Gómez González, Y. D. Mayya, and **D. Rosa González**  
2016, MNRAS, 460, 1555



99. **Search for TeV Gamma-Ray Emission from Point-like Sources in the Inner Galactic Plane with a Partial Configuration of the HAWC Observatory**  
HAWC collaboration  
2016, ApJ, 817, 3
100. **The Oxygen Abundance Gradient in M81 and the Robustness of Abundance Determinations in H II Regions**  
K. Z. Arellano-Córdova, M. Rodríguez, Y. D. Mayya, and **D. Rosa González**  
2016, MNRAS, 455, 2627
101. **Early Science with the Large Millimeter Telescope: CO and [C II] Emission in the  $z=4.3$  AzTEC J095942.9+022938 (COSMOS AzTEC-1)**  
M. S. Yun, I. Aretxaga, M. A. Gurwell, D. H. Hughes, A. Montaña, G. Narayanan, **D. Rosa González**, D. Sánchez-Argüelles, F. P. Schloerb, R. L. Snell, O. Vega, G. W. Wilson, M. Zeballos, M. Chávez, J. R. Cybulski, T. Díaz-Santos, V. De la Luz, N. Erickson, D. Ferrusca, H. Gim, D. Iono, A. Pope, S. M. Rogstad, K. S. Scott, K. Souccar, E. Terlevich, R. Terlevich, D. Wilner, and J. A. Zavala  
2015, MNRAS, 454, 3485
102. **Search for Gamma-Rays from the Unusually Bright GRB 130427A with the HAWC Gamma-ray Observatory**  
HAWC collaboration  
2015, ApJ, 800, 78
103. **Milagro Limits and HAWC Sensitivity for the Rate-Density of Evaporating Primordial Black Holes**  
HAWC collaboration  
2015, Astroparticle Physics, 64, 4
104. **VAMOS: a Pathfinder for the HAWC Gamma-Ray Observatory**  
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105. **The Sensitivity of HAWC to High-Mass Dark Matter Annihilations**  
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2014, Physical Review D, 90, 122002
106. **Observation of Small-scale Anisotropy in the Arrival Direction Distribution of TeV Cosmic Rays with HAWC**  
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107. **An Optical-Near-IR Study of a Triplet of Super Star Clusters in the Starburst Core of M82**  
M. S. Westmoquette, N. Bastian, L. J. Smith, A. C. Seth, J. S. Gallagher III, R. W. O'Connell, J. E. Ryon, S. Silich, Y. D. Mayya, C. Muñoz Tuñón and **D. Rosa González**  
2014, *ApJ*, **789**, 94
108. **On the Nature of the Brightest Globular Cluster in M81**  
Y.D. Mayya, **D. Rosa González**, M. Santiago-Cortés, L. Rodríguez-Merino, O. Vega, J.P. Torres-Papaqui, A. Bressan, and L. Carrasco  
2013, *MNRAS*, **436**, 2763
109. **Sensitivity of the High Altitude Water Cherenkov Detector to Sources of Multi-TeV Gamma Rays**  
HAWC collaboration  
2013, *Astroparticle Physics*, **50-52**, 26
110. **Integral Field Spectroscopy of HII Regions in M33**  
J. López Hernández, E. Terlevich, R. Terlevich, **D. Rosa González**, A. Díaz, R. García Benito, J. Vílchez, and G. Hagele  
2013, *MNRAS*, **430**, 472
111. **Flux Calibrated Emission Line Imaging of Extended Sources Using GTC/OSIRIS Tunable Filters**  
Y. D. Mayya, **D. Rosa González**, O. Vega, J. Méndez-Abreu, R. Terlevich, E. Terlevich, E. Bertone, L. Rodríguez Merino, C. Muñoz-Tuñón, J. M. Rodríguez-Espinosa, J. Sánchez Almeida, and J. A. L. Aguerri  
2012, *PASP*, **124**, 918
112. **On the Sensitivity of the HAWC Observatory to Gamma-Ray Bursts**  
HAWC collaboration  
2012, *Astroparticle Physics*, **35**, 641
113. **Optical Spectroscopic ATLAS of the MOJAVE/2cm AGN Sample**  
J. Torrealba, V. Chavushyan, I. Cruz González, T. G. Arshakian, E. Bertone, and **D. Rosa González**  
2012, *RevMexAA*, **48**, 9
114. **Wavelength Calibration for OSIRIS/GTC Tunable Filters**  
J. Méndez-Abreu, J. Sánchez Almeida, C. Muñoz-Tuñón, J. M. Rodríguez-Espinosa, J. A. L. Aguerri, **D. Rosa González**, Y. D. Mayya, O. Vega, R. Terlevich, E. Terlevich, E. Bertone, and L. H. Rodríguez Merino  
2011, *PASP*, **123**, 1107

115. **Spatially Resolved Star Formation History Along the Disk of M82 Using Multi-band Photometric Data**  
L. H. Rodríguez-Merino, **D. Rosa-González**, and Y. D. Mayya  
2011, *ApJ*, **726**, 51
116. **Integral Field Spectroscopy of HII Region Complexes. The Outer Disk of NGC 6946**  
R. García Benito, A. Díaz, G. F. Hagele, E. Pérez Montero, J. López Hernández, J. M. Vílchez, E. Pérez, E. Terlevich, R. Terlevich, and **D. Rosa González**  
2010, *MNRAS*, **408**, 2234
117. **Sub-arcsecond Radio Continuum Mapping in and Around the Spiral Galaxy NGC3351 using MERLIN**  
G. F. Hagele, Y. Ascasibar, A. M. S. Richards, M. V. Cardaci, J. Vázquez, A. I. Díaz, **D. Rosa González**, R. J. Terlevich, and E. Terlevich  
2010, *MNRAS*, **406**, 1675
118. **Wide-field HST/ACS images of M81: The Population of Compact Star Clusters**  
M. Cortés Santiago, D. Mayya, and **D. Rosa González**  
2010, *MNRAS*, **405**, 1293
119. **Evolution of the X-ray Luminosity in Young HII Galaxies**  
**D. Rosa González**, E. Terlevich, R. Terlevich, E. Jiménez Bailón, P. Ranalli, A. Comastri, E. Laird, and K. Nandra  
2009, *MNRAS*, **399**, 487
120. **HST/ACS Imaging of M82: A Comparison of Mass and Size Distribution Functions of the Younger Nuclear and Older Disk Clusters**  
Y. D. Mayya, R. Romano, L. H. Rodríguez-Merino, A. Luna, L. Carrasco, and **D. Rosa González**  
2008, *ApJ*, **679**, 404
121. **XMM-Newton View of Pairs of Active Galaxies: Activation of Quiescent AGN?**  
E. Jiménez-Bailón, M. Guainazzi, N. Loiseau, G. Matt, **D. Rosa González**, E. Piconcelli, and M. Santos-Lleó  
2007, *A&A*, **469**, 881
122. **Multiwavelength Study of X-ray Selected Star Forming Galaxies within the Chandra Deep Field South**  
**D. Rosa González**, D. Burgarella, K. Nandra, D. Kunth, E. Terlevich, and R. Terlevich  
2007, *MNRAS*, **379**, 357

123. **Thermal Emission from HII Galaxies: Discovering the Youngest Systems**  
D. Rosa González, H. R. Schmitt, E. Terlevich, and R. Terlevich  
2007, ApJ, **654**, 226 .
124. **Sub-arcsecond Radio Observations of the Dwarf Starburst Galaxy NGC 3077**  
D. Rosa González  
2005, MNRAS, **364**, 1304
125. **How Old Are the HII Galaxies?**  
R. Terlevich, S. Silich, D. Rosa González, and E. Terlevich  
2004, MNRAS, **348**, 1191.
126. **On the Detectability of the SZ Effect of Massive Young Galaxies**  
D. Rosa González, R. Terlevich, E. Terlevich, A. Friaça, and E. Gaztañaga  
2004, MNRAS, **348**, 669.
127. **Sub-au Imaging of Water Vapour Clouds Around four Asymptotic Giant Branch Stars**  
I. Bains, J. Cohen, A. Louridas, A. Richards, D. Rosa González, and Y. Yates  
2003, MNRAS, **342**, 8.
128. **An Empirical Calibration of Star Formation Rate Estimators**  
D. Rosa González, E. Terlevich, and R. Terlevich  
2002, MNRAS, **332**, 283.

## Teaching Experience

1. August – December **2007 – 2023**: INAOE, México  
MSc Course: Computational Techniques and Statistics for Astronomers  
Shared with Dra. Mónica Rodríguez and David Sánchez
2. Summer 2023 Tonantzintla, México  
International School for Young Astronomers at the INAOE  
Introduction to Python and Students Supervisor
3. Summer 2022 & 2023 Tonantzintla, México  
*Verano de Investigación en Astrofísica del INAOE*  
Introduction to Python and Students Supervisor
4. Summer 2021 Tonantzintla, México  
*Verano de Investigación en Astrofísica del INAOE (ON LINE)*  
Introduction to Python and Students Supervisor
5. May – July 2006 Tonantzintla, México  
MSc Course: Cosmology and Extragalactic Astronomy  
Shared with Dr. Manolis Plionis
6. October 2002 – March 2004 Imperial College, UK  
Laboratory of Spectroscopy at the Physic Department.

## Supervised Theses

1. PhD Mauricio Elías Chávez: *Study of High Redshift X-ray Sources Detected in the Deepest Single Field Ever Observed by the X-ray Observatory XMM-Newton*  
**Defended at INAOE, November 14, 2022**  
Supervisors: A. L. Longinotti, Y. Krongold and **D. Rosa González**
2. PhD Sara Coutiño de León: *Mrk 421 and Mrk 501 spectral analysis with HAWC*  
**Defended at INAOE, July 2021**  
Supervisors: A. Carramiñana, and **D. Rosa González**
3. MSc Fernando J. Ureña Mena: *Study of the Very High Energy Emission of M87 through its Broadband Spectral Energy Distribution*  
**Defended at INAOE, August 2020**  
Supervisors: A. Carramiñana, A. L. Longinotti, and **D. Rosa González**
4. MSc Alan Y. Ramos Reyes: *Estudio espectroscópico y fotométrico de los alrededores de la galaxia TXS 0506+056 con el Gran Telescopio Canarias*  
**Defended at INAOE, December, 2019**  
Supervisors: Y. D. Mayya, and **D. Rosa González**
5. PhD Mayra Santiago Cortés: *Study of three distinct populations of stellar clusters in the spiral galaxy M81*  
**Defended at INAOE, July, 2017**  
Supervisors: Y. D. Mayya, and **D. Rosa González**
6. MSc Sara Coutiño de León: *Estudio de la Luz Extragaláctica de Fondo usando fuentes de rayos gamma en el campo de visión de HAWC*  
**Defended at INAOE, December, 2014**  
Supervisors: Alberto Carramiñana, and **D. Rosa González**.
7. PhD Jesús López Hernández: *Análisis Diferencial de Regiones de Formación Estelar Circumnucleares y de Disco*  
**Defended at INAOE, October, 2013**  
Supervisors: Elena Terlevich, Roberto Terlevich, and **Daniel Rosa González**
8. MSc Karla Ziboney Arellano: *Estudio de regiones H II en M81 utilizando espectros de GTC*  
**Defended at INAOE, November, 2012**  
Supervisors: Y. D. Mayya, M. Rodríguez, and **D. Rosa González**
9. BSc Sara Coutiño de León: *Identificación de fuentes de rayos gamma*  
**Defended at Universidad Autonoma de Chiapas, October, 2012**  
Supervisors: Cesar Alvarez, Alberto Carramiñana, and **Daniel Rosa González**

10. BSc Abraham Carmona: *Clasificación y Estudio Multifrecuencia de Galaxias con Nucleo Activo seleccionadas del catálogo FIRST-APM de Cuásares*  
**Defended at Benemérita Universidad de Puebla, May 9, 2011**  
Supervisors: Vahram Chavushyan, and **Daniel Rosa González**
11. MSc Mayra Santiago Cortés: *Búsqueda de supercúmulos en galaxias cercanas usando imágenes de HST*  
**Defended at INAOE, November 21, 2008**  
Supervisors: Y. Divakara Mayya, and **Daniel Rosa González**
12. Fernando J. Ureña Mena: *Study of the Very High Energy Emission of AGNs*  
INAOE – PhD - Starting date August 2020  
Supervisors: A. Carramiñana, A. L. Longinotti, and **D. Rosa González**
13. Eliana I. Vargas Sánchez: *Masas de polvo y gas en la galaxia de cara cercana NGC 3938*  
INAOE – MSc - Starting date August 2022  
Supervisors: J. Zaragoza and **D. Rosa González**
14. Pablo González Hernández: *To be defined*  
INAOE – MSc - Starting date August 2023  
Supervisors: A. Carramiñana and **D. Rosa González**

## Edition of Books:

1. **Massive Young Star Clusters Near and Far: from the Milky Way to Re-Ionization**  
2014, *Academia Mexicana de Ciencias & Instituto Nacional de Astrofísica Óptica y Electrónica*  
Eds. D. Mayya, **D. Rosa González** and E. Terlevich  
ISBN 978-607-8379-01-9
2. **New Quests in Stellar Astrophysics II: Ultraviolet Properties of Evolved Stellar Populations**  
2009, *Astrophysics and Space Science Proceedings series by Springer*,  
Eds. M. Chávez, E. Bertone, **D. Rosa González** and  
L. H. Rodríguez Merino  
ISBN 978-0-387-87621-4

## Participation in Committees

1. June 2022 – December 2023, Member of the **Mexican GTC CATT** <sup>1</sup>
2. November 2023, Member of the **LMT/GTM proposals review panel: Nearby Universe**
3. November 2023, Puerto Vallarta, México  
Member of the Organizing Committee for the **HAWC Collaboration Meeting**
4. July 2023, **Panelist of the Hubble Space Telescope Cycle 31**
5. May 2023, Puebla City Center, México  
Member of the Organizing Committee for the **HAWC Collaboration Meeting**
6. December 2022, Member of the **LMT/GTM proposals review panel: Nearby Universe**
7. 29–30 July 2019, La Palma, Spain  
**Chair of the GTC Users Committee**
8. 20–21 February 2019, Tenerife, Spain  
**Chair of the GTC Users Committee**
9. 19–20 September 2018, La Palma, Spain  
Member of the **GTC Users Committee**

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<sup>1</sup> *Comisión de Asignación de Tiempo de Telescopio*



10. 21–22 February 2018, Tenerife, Spain  
Member of the **GTC Users Committee**
11. November 2017, Cocoyoc, Morelos, México  
Member of the Organizing Committee for the **HAWC Collaboration Meeting**
12. November 2016, Puebla, México  
Member of the Organizing Committee for the **Workshop on a Wide-FOV TeV Observatory in the Southern Hemisphere**
13. November 2016, Puebla, México  
Member of the Organizing Committee for the **HAWC Collaboration Meeting**
14. December 2015, Puebla, México  
Member of the Organizing Committee for the **Vth Science with GTC**
15. March 2015, Puebla, México  
Member of the Organizing Committee for the **HAWC Inauguration**
16. October 2014, INAOE, Puebla, México  
Member of the **Evaluation Panel of the Large Millimeter Telescope: Early Science III – Nearby Universe**
17. October 2014, Puebla, México  
Member of the Organizing Committee for the **HAWC Collaboration Meeting**
18. December 2013, Puebla, México  
Member of the Organizing Committee for the 2013 Guillermo Haro Conference: **Massive Young Star Clusters Near and Far: From the Milky Way to Re-ionization**
19. July 2013, Tonantzintla, México  
Member of the Organizing Committee for the 2011 Guillermo Haro Workshop in Advanced Astrophysical Research:  
**Galaxy structure and evolution through Integral Field Spectroscopy: the next generation surveys**
20. July 2011, Tonantzintla, México  
Member of the Organizing Committee for the 2011 Guillermo Haro Workshop in Advanced Astrophysical Research:  
**Surveying the gamma-ray sky**
21. June 2011, Tlaxcala, México  
Member of the Organizing Committee for the **HAWC Collaboration Meeting**

22. July 2010, Tonantzintla, México  
Member of the Organizing Committee for the 2010 Guillermo Haro Workshop in Advanced Astrophysical Research:  
**Compact superstar clusters, birth, evolution and feedback**
23. April 2007, Puerto Vallarta, México: LOC member in the Conference:  
**New Quests in Stellar Astrophysics: Ultraviolet Properties of Evolved Stellar Populations.**
24. July 2006, Tonantzintla, México: LOC member in the 10<sup>th</sup> GH Workshop:  
**Science with the future large Optical/IR facilities in Mexico.**
25. November 2001, Tonantzintla, México: LOC member in the conference:  
**Disks of galaxies: Kinematics, Dynamics and Perturbations.**
26. October 2000, Tonantzintla, México: LOC member in the workshop:  
**The Nature of Galactic High Energy Gamma-Ray Sources**

## Contribution to conferences and workshops:

1. ICRC, 2023, Nagoya, Japan  
 Title: **Study of the Long-Term Very High Energy Emission of the Blazars 1ES 1215+3031 and VER J0521+211 with the HAWC Gamma-Ray Observatory**  
 F. Ureña Mena, A. Carramiñana, **D. Rosa-González**, and A. L. Longinotti,  
 for the HAWC collaboration  
 (arXiv:2310.02468)
2. ICRC, 2023, Nagoya, Japan  
 Title: **An Updated Survey of Active Galaxies with the HAWC Gamma-Ray Observatory**  
 F. Ureña Mena, A. Carramiñana, **D. Rosa-González**, and A. L. Longinotti,  
 for the HAWC collaboration  
 (arXiv:2310.02484)
3. June 2021, **Invited Talk** at the Sociedad Mexicana de Física  
 Title: **El Observatorio HAWC y su Visión Extragaláctica a las Más Altas Energías**
4. ICRC, 2019, Madison, Wisconsin, USA  
 Title: **A survey of Active Galaxies with the HAWC Gamma-ray Observatory**  
 A. Carramiñana, **D. Rosa-González**, S. Coutiño de León, and A. L. Longinotti, for the HAWC collaboration  
 (arXiv:1908.06831)
5. ICRC, 2019, Madison, Wisconsin, USA  
 Title: **Spectral analysis of the blazars Markarian 421 and Markarian 501 with the HAWC Gamma-Ray Observatory**  
 S. Coutiño de León, A. Carramiñana, **D. Rosa-González**, and A. L. Longinotti, for the HAWC collaboration  
 (arXiv:1909.01179)
6. ICRC, 2017, Busan, Korea  
 Title: **Spectral analysis from Mrk 421 and 501 with HAWC**  
 S. Coutiño de León, A. Carramiñana and **D. Rosa-González** for the HAWC collaboration  
 (proceeding HAWC-ICRC/2017/20 )
7. 2016, International Society for Optics and Photonics  
 Title: **MEGARA, the new intermediate-resolution optical IFU and MOS for GTC: getting ready for the telescope**  
 MEGARA collaboration  
 Proceedings of the SPIE, Volume 9908, id. 99081K 20 pp. (2016).

8. 2016, XV Latin American Regional IAU Meeting 2016  
 Title: **Redshift and Environment of the Extreme BL Lac SDSS J090900.62+231112.9**  
 Rosa González, D.; Coutiño de León, S.; Mayya, Y. D.; Carramiñana, A.; Aretxaga, I.; Becerra González, J.; Furniss, A.; Terlevich, E.; Vega, O.; Méndez-Abreu, J.; León Tavares, J.; Longinotti, A. L.; and Terlevich, R.
  
9. 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization  
 Title: **The LMT Galaxies' 3 mm Spectroscopic Survey: First Results**  
 Rosa González, D.; Schloerb, P.; Vega, O.; Hunt, L.; Narayanan, G.; Calzetti, D.; Yun, M.; Terlevich, E.; Terlevich, R.; Mayya, Y. D.; Chávez, M.; Montaña, A.; Pérez García, A. M.  
 Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC
  
10. 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization  
 Title: **Global vs. Spatially Resolved Physical Characteristics of Extragalactic HII Regions**  
 Terlevich, E.; López-Hernández, J.; Terlevich, R.; Rosa González, D.  
 Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC
  
11. 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization  
 Title: **Structural Parameters of M81 Globular Clusters: Analysis of their Intensity Profiles**  
 Santiago-Cortés, M.; Mayya, Y. D.; Rosa-González, D.  
 Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC
  
12. 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization  
 Title: **On the Nature of Faint Fuzzies in M81**  
 Mayya, Y. D.; Santiago-Cortés, M.; Rosa-González, D.; Gómez-González, M.; Rodríguez, L.; Carrasco, L.  
 Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC
  
13. 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization  
 Title: **Metallicity of the Globular Clusters in M81**  
 Rodríguez-Merino, L. H.; Mayya, Y. D.; Vega, O.; Rosa-González, D.; Santiago-Cortés, M.

- Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC
14. 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization  
 Title: **The Oxygen Abundance Gradient in M81**  
 Arellano-Córdova, K.; Rodríguez, M.; Mayya, Y. D.; Rosa-González, D.  
 Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC
  15. 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization  
 Title: **Compact Star Clusters-Environment Connection in M81**  
 Gómez-González, V. M. A.; Mayya, Y. D.; Rosa-González, D.; Rodríguez-Merino, L. H. Santiago-Cortés, M.  
 Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC
  16. 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization  
 Title: **Integral Field Spectroscopy of H II Regions in M101**  
 López-Hernández, J.; Terlevich, E.; Terlevich, R. J.; Rosa-González, D.; Bresolin, F.  
 Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC
  17. 2014, Massive Young Star Clusters Near and Far: From the Milky Way to Reionization  
 Title: **2D Star Formation History in Tol 0957-278**  
 Torres-Campos, A.; Terlevich, E.; Rosa-González, D.; Díaz, A.; Terlevich, R.; Telles, E. Guillermo Haro Conference, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. INAOE & AMC
  18. 2013, International Society for Optics and Photonics  
 Title: **MEGARA: a new generation optical spectrograph for GTC**  
 MEGARA collaboration  
 Proceedings of the SPIE, Volume 9147
  19. 2013, Fourth Science Meeting with the GTC  
 Title: **MEGARA: The future IFU and MOS of the 10.4 m GTC**  
 MEGARA collaboration  
 RMxAC, Eds. C. Muñoz-Tuñón & J. M. Rodríguez-Espinosa
  20. 2013, Fourth Science Meeting with the GTC  
 Title: **GTC long-slit spectroscopy of compact stellar clusters in M81**

- Mayya, Y. D.; **Rosa-González, D.**; Santiago-Cortés, M.; Arellano-Córdova, K.; Rodríguez, M.  
RMxAC, Eds. C. Muñoz-Tuñón & J. M. Rodríguez-Espinosa
21. 2012, Highlights of Spanish Astrophysics VII  
Title: **Star formation in H II galaxies**  
Torres-Campos, A.; Díaz, A. I.; Terlevich, E.; **Rosa-González, D.**;  
Telles, E.; Terlevich, R.  
X Scientific Meeting of the Spanish Astronomical Society, Eds.: J.C.  
Guirado, L.M. Lara, V. Quilis, and J. Gorgas
  22. 2011, XIII Latin American Regional IAU Meeting  
Title: **H $\alpha$  and [OIII] emission line maps of Mrk 1318 and Tol 1358-328. Characterising the star formation in HII galaxies**  
Torres-Campos, A.; **Rosa-Gonzalez, D.**; Terlevich, E.; Telles, E.; Terlevich, R.; Schmitt, H. R.  
RMxAC (Serie de Conferencias) Vol. 40, pp. 102-103
  23. 2011, XIII Latin American Regional IAU Meeting  
Title: **Structural Parameters of M81 Compact Star Clusters**  
Santiago-Cortes, M.; Mayya, Y. D.; **Rosa-Gonzalez, D.**  
RMxAC (Serie de Conferencias) Vol. 40, pp. 94-95
  24. 2011, XIII Latin American Regional IAU Meeting  
Title: **GTC long-slit spectroscopy of compact stellar clusters in M81**  
Mayya, Y. D.; **Rosa-Gonzalez, D.**; Santiago-Cortes, M.  
RMxAC (Serie de Conferencias) Vol. 40, pp. 76-77
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 Title: **XMM-Newton View of Pairs of Active Galaxies: Activation of Quiescent AGN?**  
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38. September 2002, Granada, Spain:  
**Star Formation through Time**  
 Title: **The ages of HII galaxies.**  
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 Astronomical Society of the Pacific Conference Series, vol. 297.
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 Title: **High Redshift Galaxies and the SZ Effect.**  
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 Astronomical Society of the Pacific Conference Series, vol. 283.
41. March 2001, Puerto Vallarta México:  
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 Title: **On the calibration of star formation rates.**  
**D. Rosa González**, E. Terlevich and R. Terlevich.  
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42. November 2000, Tonantzintla, México:  
 Title: **SZ en Galaxias Lejanas**  
**D. Rosa González**, E. Terlevich, E. Gaztañaga, R. J. Terlevich and A. Friaça  
 Primer Encuentro de Investigación del INAOE.
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 Title: **SZ effect in Young Massive Ellipticals?.**  
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 XI Canary Islands Winter School of Astrophysics:  
**High Redshift Galaxies.**  
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45. June-July, 1999, Tonantzintla, México:  
 Guillermo Haro Workshop on **Large-scale Structure and Clusters of Galaxies**  
 Title: **Formation of structures and its implication in the observation of the Sunyaev-Zeld'ovich effect.**  
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46. November 1998, Tonantzintla, México:  
 The IX reunión latinoamericana  
 Title: **Cooling BOLOCAM, a New Camera for the Future LMT/GTM.**  
**D. Rosa González**, L. Yuen, B. Rownd, K. Feitosa, P. Mauskopf and E. Gerecht.  
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## Outreach

1. February 2024, Tonantzintla, Puebla, México  
**Maestría y Doctorado en Astrofísica en el INAOE**  
**Postgraduate Study Fair at INAOE**
2. November 2023 Planetarium, Puebla  
Star Night: **Existencia de Materia Oscura en el Universo**
3. October 2023, Universidad IBERO, Puebla  
XIV Jornada de las Ciencias y la Tecnología: **Existencia de Materia Oscura en el Universo**
4. September 2023, Casa de la Ciencia de Atlixco, Puebla  
Baños de Ciencia: **El Universo se Expande, pero hacia dónde?**
5. June 2023, Tonantzintla, Puebla, México  
Summer School at INAOE: **Postgrados en el INAOE**
6. June 2023, Tonantzintla, Puebla, México  
CONCYTEP: **Interview for the TV program Amar la Ciencia**
7. June 2023 Biblioteca Alma (Consejo de Lectura de Puebla)  
Baños de Ciencia: **Viaje a las partes Oscuras del Universo**
8. June 2023, Tonantzintla, Puebla, México  
Humboldt School, Company Exploration: **Astronomy and Astrophysics at INAOE**
9. May 2023, Tonantzintla, Puebla, México  
**Maestría y Doctorado en Astrofísica en el INAOE**  
**INAOE MSc Students**
10. May 2023, Foro Karuzo, Puebla, México  
**Revelando los Mistérios del Universo desde el KARUZO**
11. March 2023 Biblioteca Alma (Consejo de Lectura de Puebla)  
Baños de Ciencia: **Revelando (algunos) Misterios del Universo**
12. March 2023 Universidad Iberoamericana  
Baños de Ciencia: **Revelando (algunos) Misterios del Universo**
13. March 2023, Tonantzintla, Puebla, México  
**Maestría y Doctorado en Astrofísica en el INAOE**  
**Postgraduate Study Fair at INAOE**
14. December 2022, Tonantzintla, Puebla, México  
**Maestría y Doctorado en Astrofísica en el INAOE**  
**Students from the Universidad de las Américas, Puebla**

15. November 2022, Tonantzintla, Puebla, México  
**Maestría y Doctorado en Astrofísica en el INAOE**  
**Open Doors Day at the INAOE**
16. September 2022, INAOE, Tonantzintla, Puebla, México  
**Encontrando y estudiando galaxias lejanas, muy lejanas**  
**Martes de Ciencia con el INAOE**  
  
[https://www.youtube.com/watch?v=i\\_2ygQpPRDo&t=1350s](https://www.youtube.com/watch?v=i_2ygQpPRDo&t=1350s)
17. September 2022, INAOE, Tonantzintla, Puebla, México  
**Maestría y Doctorado en Astrofísica en el INAOE**  
**Students from the Benemérita Universidad de Puebla**
18. June 2022, Centro Mexicano de la Divulgación Científica  
**Barra Libre con HAWC: El Universo a las Más Altas Energías**  
  
<https://www.youtube.com/watch?v=w7Y5VIF1-Kk&t=23s>
19. May 2022, INAOE, Tonantzintla, Puebla, México  
**El Observatorio HAWC: Proyectos y Oportunidades**  
**Students from the Guanajuato University**
20. September 2021, INAOE, Tonantzintla, Puebla, México  
**Estrellas Rojas y Azules y la Expansión del Universo**  
**Martes de Ciencia con el INAOE**  
  
<https://www.youtube.com/watch?v=BDifKIrV10Y>
21. July 2021, INAOE, Tonantzintla, Puebla, México  
**Posgrado de Astrofísica en el INAOE**  
**Verano de Investigación Científica**
22. April 2020, INAOE, Tonantzintla, Puebla, México  
**Existencia de materia oscura en galaxias**
23. August 2019, Radio Station Puebla Comunicaciones, Puebla, México  
Invited to the program **Frontera Espacial** by **Antonio Tzil**
24. April 2018, Foro Karuzo, Puebla, México  
**El Universo y Otros Misterios**
25. April 2018, El Dia Newspaper, Tenerife, España  
**Protones, antiprotones y la sombra de la Luna**  
<http://eldia.es/criterios/2018-04-01/7-Protone-antiproton-ombra-Luna.htm>

26. May 2017, La Provincia Newspaper, Gran Canaria, España  
**Canarias otea el Universo**  
<http://www.laprovincia.es/provincia-especiales/2017/05/30/canarias-otea/944181.html>
27. January 2017, El Dia Newspaper, Tenerife, España  
**Estudiando objetos astronómicos extremos con el Gran Telescopio Canarias**  
<http://eldia.es/criterios/2017-01-08/1-Estudiando-objetos-astronomicos-extremos-Gran-Telescopio-Canarias.htm>
28. May 2016, Hospital General de Huejotzingo, Pue.  
Oral Presentation: **Observando el Universo Oscuro**  
Educación Médica Continua de los Servicios de Salud del Estado de Puebla
29. March 2015, Saberes y Ciencias, México  
**La Colaboración HAWC**  
<http://saberesyciencias.com.mx/2015/03/09/la-colaboracion-hawc/>
30. February 2011: Benemérita Universidad de Puebla, Puebla, México  
**Noche de las Estrellas 2011**
31. April 2010: Museo del Ferrocarril, Puebla, México  
**Noche de las Estrellas 2010**
32. March 2006: Atlixco, Puebla, México  
Oral Presentation: **MERLIN, de Mago a Radioastrónomo: Una Introducción a la Interferometría**
33. May 2002: Scientific and Cultural Week, San Lucas Atoyatenco, Tex. Puebla, México  
Oral Presentation: **Evolución de las Galaxias**