

Curriculum Vitae

Luis Felipe Rodríguez Jorge

Datos Personales:

Lugar y fecha de nacimiento: Mérida, Yucatán, México, 29 de mayo de 1948

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Puesto Actual:

Investigador Titular "C" (Centro de Radioastronomía y Astrofísica, UNAM)

Grados Académicos:

1973 Licenciatura (Física) Universidad Nacional Autónoma de México.
1975 M.A. (Astronomía) Harvard University.
1978 Ph.D. (Astronomía) Harvard University.

Area Principal de Investigación:

Estudios Radioastronómicos del Medio Interestelar.

Distinciones Académicas Nacionales:

1984 Premio Nacional Puebla del Consejo Estatal de Ciencia y Tecnología de Puebla.
1985 Premio Nacional de Investigación en Ciencias Exactas de la Academia de Ciencias.
1991 Medalla Eligio Ancona del Gobierno del Estado de Yucatán.
1992 Premio UNAM en el área de Ciencias Exactas.
1993 Premio Nacional en el campo de Ciencias Físico-Matemáticas y Biológicas.
1994 Cátedra Patrimonial de Excelencia Nivel I del CONACyT.
1998 Premio Ricardo J. Zevada de la Fundación Zevada.
2000 Miembro de El Colegio Nacional.
2004 Medalla Hector Victoria Aguilar del Congreso del Estado de Yucatán.

Distinciones Académicas Internacionales:

1980 Premio Robert J. Trumpler de la Astronomical Society of the Pacific.
1984 Beca Henri Chrétien de la American Astronomical Society.
1986 Premio Manuel Noriega Morales de la Organización de Estados Americanos.
1987 Premio Dudley del Observatorio Dudley.
1988 Beca Guggenheim de la Fundación Guggenheim.
1996 Premio Bruno Rossi de la American Astronomical Society.
1997 Premio en Física de la Third World Academy of Sciences.

Información Adicional:

Miembro de los Comités Editoriales de Revista Mexicana de Astronomía y Astrofísica 1980-1984, Naturaleza 1980-1986, Ciencia 1984-1992, Astrophysical Letters and Communications 1986-, Publications of the Astronomical Society of the Pacific 1987-1991, Revista Mexicana de Física 1990-1992.

Coeditor de la Revista Mexicana de Astronomía y Astrofísica (1999-2001)

Presidente de la División de Radioastronomía de la Unión Astronómica Internacional (2003-2006)

Arbitro o evaluador para *Ap. J.*, *Astron. and Astrophys.*, *Astron. J.*, *M. N. R. A. S.*, *Revista Mexicana de Astronomía y Astrofísica*, *Revista Mexicana de Física*, *Ciencia*, *Science*, *Nature*, National Science Foundation, North Atlantic Treaty Organization, European Southern Observatory, Research Corporation, Centro de Investigación de Astronomía, Fondo Nacional de Desarrollo Científico y Tecnológico, Universidad de Chile, Consejo Nacional de Ciencia y Tecnología, University of Massachusetts, Brown University, National Optical Astronomy Observatories, Boston University, Universidad Autónoma Metropolitana, Comisión Interministerial de Ciencia y Tecnología, National Radio Astronomy Observatory, Fundación Guggenheim, Instituto de Astrofísica de Canarias, National Aeronautics and Space Administration, Rice University, Carnegie Institution, Commissariat à l'Énergie Atomique, Francia, American Astronomical Society, University of Hertfordshire, UK, Alexander von Humboldt Foundation, Alemania, Universidad de Puerto Rico, Puerto Rico, Universidad Autónoma de Yucatán, Boletín de la Asociación Argentina de Astronomía.

Presidente de la Comisión de Supercómputo de la UNAM (1989-1993), Miembro de la Comisión Dictaminadora del Sistema Nacional de Investigadores, Area I, (1990-1993), Presidente del Comité de Ciencias Exactas de CONACyT (1991-1992), Miembro (dos ocasiones) del Comité del Premio Nacional de Ciencias, y Miembro (dos ocasiones) del Comité del Premio México.

Miembro de los Comités Organizadores de las Sigüientes Reuniones (29): Symposium on Herbig-Haro Objects, T Tauri Stars and Related Phenomena (Presidente), México, 1983; Summer School on Interstellar Processes, EUA, 1986; V Latin American Regional Meeting of the IAU (Presidente), México, 1986; Symposium 131 of the International Astronomical Union, Planetary Nebulae, México, 1987; NATO School on Galactic and Extragalactic Star Formation, Canadá, 1987; American Physical Society Conference on Plasma Astrophysics, EUA, 1988; Colloquium 120 of the IAU: Structure and Dynamics of the Interstellar Medium, España, 1989; Third Haystack Observatory Meeting: Skylines, EUA, 1990; Primera Escuela Mexicana de Astrofísica (Presidente), México, 1991; Astrochemistry of Cosmic Phenomena, Brasil, 1991; The Cold Universe, Francia, 1993; Circumstellar Disks, Outflows, and Star Formation, México, 1994; Radio Emission from the Stars and the Sun, España, 1995; Herbig-Haro Flows and the Birth of Low-Mass Stars, Francia, 1997; XI Reunión Anual de Astronomía, México, 1997; Current and Future Problems in Herbig-Haro Objects, México, 1998; Simposio La Astronomía Hacia el Siglo XXI, México, 1998; XII Reunión Anual de Astronomía, México, 1998;

Escuela de Verano de Astrofísica, México, 1999; Science with a Large Millimeter Array, EUA, 1999; XIII Reunión Anual de Astronomía, México, 1998; Disks, Planetesimals, and Planets, España, 2000; XIV Reunión Anual de Astronomía, México (Presidente), 2000; Astronomical Site Evaluation in the Visible and Radio Range, Marruecos, 2000; Emission Lines from Jet Flows, México, 2000; Symposium on Ionized Gaseous Nebulae, México, 2000; IAU Symposium 206, Cosmic Masers: From Protostars to Black Holes, Brasil, 2001; EVLA Planning Workshop: Defining the Second Phase, EUA, 2001; The Environments and Evolution of Double and Multiple Stars: IAU Colloquium 191, México, 2003; Star Formation at High Angular Resolution, IAU Symposium 221, Sydney, Australia, 2003; IV Escuela Mexicana de Astrofísica, Morelia, Michoacán, 2005; Protostars and Planets V, Hawaii, EUA, 2005; XXVI Asamblea General de la UAI, Praga, República Checa, 2006; IAU Symposium 242: Astrophysical Masers and their Environments, Alice Springs, Australia, 2007.

Miembro de las Sigüientes Sociedades Científicas: American Astronomical Society, International Astronomical Union, Sociedad Mexicana de Física, Astronomical Society of the Pacific, Academia Mexicana de Ciencias, Academia de Ciencias de América Latina, Academia de Ciencias del Tercer Mundo.

Miembro del Comité de Usuarios (1982-1985) y del Comité de Supervisión (Visiting Committee, 1995-1998) del Observatorio Nacional Radioastronómico de los EUA.
Miembro del Comité Científico del Millimeter Array (1998-)

Director del Instituto de Astronomía de la UNAM, 1980-1986. Jefe del Departamento de Astrofísica Computacional del IAUNAM, 1991-1993, Responsable de la Unidad Morelia, 1995-.

Investigador Nivel III del Sistema Nacional de Investigadores.

Nivel "F" en el PREPAC de la UNAM desde el inicio del programa.

Es autor de más de 300 artículos especializados y ha recibido más de 10,000 citas en la literatura especializada.

Sus resultados astronómicos han aparecido de manera prominente en diversas ocasiones en la prensa y los medios de divulgación nacionales e internacionales y sus trabajos han merecido en dos ocasiones la portada de la Revista "Nature". Es el único astrónomo iberoamericano que aparece en la lista de los científicos más citados del mundo (<http://isihighlycited.com/>).

Ha dado más de 200 conferencias de astronomía, tanto a nivel profesional como de divulgación. De estas conferencias, 27 han sido reseñas plenarias en conferencias internacionales.

Profesor de la Facultad de Ciencias de la UNAM desde 1979 y de la Escuela de Físico-Matemáticas de la Universidad Michoacana desde 1997.

En el área de divulgación y docencia, es autor de más de setenta artículos y de tres libros. Su libro de divulgación “Un Universo en Expansión” ha rebasado los 100,000 ejemplares vendidos.

Estudiantes

Tesis de Licenciatura (10)

Patricia Carral (1980: Determinación de Parámetros en Nubes Moleculares: Emisión de Gas a Altas Velocidades), Yolanda Gómez (1985: Formación de Nebulosas Planetarias), Salvador Curiel (1986: Ondas de Choque en el Medio Interestelar), Eduardo Mendoza (1988: Investigación de Centros de Actividad Solar con Interferómetro de Base Pequeña en Onda de 4 cm), Rosa I. Díaz (1991: Transformadas de Fourier Aplicadas a Radioastronomía), Ariel L. Rosenthal (UMSNH, 1999: Chorros Supersónicos en Regiones de Formación Estelar), Luis A. Zapata (Universidad Autónoma de Coahuila, 2002/05/27: Observaciones de Radio del Objeto AFGL 4029), Ramiro Franco (Universidad de Guadalajara, 2003/03/27: Chorros Térmicos en Estrellas Jóvenes), Daniel Tafoya Martínez (UMSNH, 2003/06/05: Estudio Radiointerferométrico de la fuente MWC 349), Alfonso Trejo Cruz (UMSNH, 2004/11/18: Fuentes Ultraluminosas de Rayos X).

Tesis de Maestría (6)

José M. Torrelles (1982: La Física del Amoníaco y su Aplicación al Estudio del Medio Interestelar), María J. Labrandero (1986: Nubes Moleculares), Yolanda Gómez (1989: Estrellas OH/IR), Salvador Curiel (1989: Objetos Herbig-Haro), Abraham Ruiz (1989: Física de la Molécula de OH en el Medio Interestelar), Víctor G. Delgado (UMSNH, 2000: Observaciones de Radio del Sistema de Objetos Herbig-Haro 1 y 2).

Tesis de Doctorado (7)

José M. Torrelles (1983: Estudio de Nubes Moleculares con Flujos de Gas a Alta Velocidad), Yolanda Gómez (1990: Estudio en Radiofrecuencias de Nebulosas Planetarias Jóvenes y Estrellas OH/IR), Abraham Ruiz (1991: OH de Alta Velocidad en Regiones de Formación Estelar), Maripaz Miralles (1993: Estudios de Radiocontinuo, Amoníaco y Vapor de Agua de Fuentes IRAS Brillantes sin Asociación), María E. Contreras (1998: Estudio en la Región de Radio de Vientos en Estrellas Masivas), Mayra Lebrón (2000: Estudio del Gas Alrededor de Estrellas Masivas Jóvenes), Luis A. Zapata (2006: Observaciones Centimétricas y Milimétricas de Formación Estelar Masiva en la Región OMC1 Sur).

Estudiantes de Verano (Programa de la AMC)

Víctor M. Villanueva (1992), Pedro Ojeda (2000), Luis Zapata (2000), Roberto Arceo (2000).

Cursos Impartidos

En los programas de Posgrado de la Facultad de Ciencias de la UNAM ha impartido los cursos de Radioastronomía (4 ocasiones), Material Interestelar (2 ocasiones), y Procesos Radiativos en la Astrofísica (5 ocasiones). En el programa de Posgrado en Física de la Universidad Michoacana ha impartido el curso de Electrodinámica (1 ocasión: 1997), el de Introducción a la Astrofísica (1 ocasión: 1998), y el Curso Especial de Física: Radioastronomía (1 ocasión: 2002).

Publicaciones:

1. "Ionization Structure of Gaseous Nebulae: Sulphur, Nitrogen and Helium," Peimbert, M., Rodríguez, L.F., y Torres-Peimbert, S. 1974, *Rev. Mexicana Astron. Astrof.*, **1**, 129.
2. "The Ionization Structure of H II Regions of Different Helium Content," Rodríguez, L.F., Torres-Peimbert, S., y Peimbert, M. 1974, *Rev. Mexicana Astron. Astrof.*, **1**, 161.
3. "Detection of Extragalactic Radio Recombination Line Emission from M82," Chaisson, E.J., y Rodríguez, L.F. 1977, *Ap. J. (Lett.)*, **214**, L111.
4. "A Comparative Study of High Radiofrequency and Far-Infrared Observations of Galactic H II Regions," Rodríguez, L.F., y Chaisson, E.J. 1978, *Ap. J.*, **221**, 816.
5. "The Helium Problem in Sagittarius B2," Chaisson, E.J., Lichten, S.M., y Rodríguez, L.F. 1978, *Ap. J.*, **221**, 810.
6. "Broad H94 α Emission from the Extended Thermal Component in the Galactic Center," Rodríguez, L.F., y Chaisson, E.J. 1978, *M. N. R. A. S.*, **184**, 145.
7. "Five New H₂O Masers Located Near Herbig-Haro Objects," Rodríguez, L.F., Moran, J.M., Dickinson, D.F., y Gyulbudaghian, A.L. 1978, *Ap. J.*, **226**, 115.
8. "The Temperature and Dynamics of the Ionized Gas in the Nucleus of our Galaxy," Rodríguez, L.F., y Chaisson, E.J. 1979, *Ap. J.*, **228**, 734.
9. "A Hydrogen and Helium Radio Recombination Line Survey of Galactic H II Regions at 10 GHz," Lichten, S.M., Rodríguez, L.F., y Chaisson, E.J. 1979, *Ap. J.*, **229**, 524.
10. "Radio Recombination Line Observations of M8 at 5 and 10 GHz," Rodríguez, L.F., y Lichten, S.M. 1979, *Astrophysical Letters*, **20**, 37.
11. "On the Ionizing Agent of the Extended Thermal Component in the Galactic Center," Rodríguez, L.F., y Chaisson, E.J. 1979, *Ap. J.*, **231**, 697.
12. "Radio Observations of Water Vapor, Hydroxyl, Silicon Monoxide, Ammonia, Carbon Monoxide and Compact H II Regions in the Vicinities of Suspected Herbig-Haro Objects," Rodríguez, L.F., Moran, J.M., Ho, P.T.P., y Gottlieb, E.W. 1980, *Ap. J.*, **235**, 845.
13. "Observations of a Compact H II Region and Water Vapor Sources in the Vicinity of the Herbig-Haro Objects 7-11," Haschick, A.D., Moran, J.M., Rodríguez, L.F., Burke, B.F., Greenfield, P., y García-Barreto, J.A. 1980, *Ap. J.*, **237**, 26.
14. "Water Vapor Masers and Star Formation in NGC 6334," Moran, J.M., y Rodríguez, L.F. 1980, *Ap. J. (Lett.)*, **236**, L159.
15. "On the Radio and Near-Infrared Hydrogen Recombination Line Emission from M82," Rodríguez, L.F., y Chaisson, E.J. 1980, *Ap. J.*, **238**, 41.
16. "A Stellar-Wind Focusing Mechanism as an Explanation for the Herbig-Haro Objects," Cantó, J., y Rodríguez, L.F. 1980, *Ap. J.*, **239**, 982.
17. "Anisotropic Mass Outflow in Cepheus A," Rodríguez, L.F., Moran, J.M., y Ho, P.T.P. 1980, *Ap. J. (Lett.)*, **240**, L149.
18. "Observations of HC₃N and HC₅N in Sgr B2 and Cloud 2," Rodríguez, L.F., y Chaisson, E.J. 1980, *M. N. R. A. S.*, **192**, 651.

19. "A Search for High-Velocity Water Masers in Regions of Star Formation," García-Barreto, J.A., Rodríguez, L.F., Moran, J.M., y Burke, B.F. 1981, *Rev. Mexicana Astron. Astrof.*, **5**, 87.
20. "The Electron Temperature of W31C and S206," Carral, P., Rodríguez, L.F., y Chaisson, E.J. 1981, *Astron. and Astrophys.*, **95**, 388.
21. "Carbon Monoxide Observations of R. Monocerotis NGC2261 and HH-39: The Interstellar Nozzle," Cantó, J., Rodríguez, L.F., Barral, J.F., y Carral, P. 1981, *Ap. J.*, **244**, 102.
22. "Radio Continuum and Carbon Monoxide Observations of V645 Cygni (GL2789)," Rodríguez, L.F., Torrelles, J.M., y Moran, J.M. 1981, *Astron. J.*, **86**, 1245.
23. "Radio Sources in NGC6334," Rodríguez, L.F., Cantó, J., y Moran, J.M. 1982, *Ap. J.*, **255**, 103.
24. "Anisotropic Mass Outflow in Regions of Star Formation," Rodríguez, L.F., Carral, P., Ho, P.T.P., y Moran, J.M. 1982, *Ap. J.*, **260**, 635.
25. "Neutral Hydrogen Associated with the Planetary Nebula NGC6302," Rodríguez, L.F., y Moran, J.M. 1982, *Nature*, 299, 323.
26. "Mass Outflow in Star Formation Regions: Cepheus A," Ho, P.T.P., Moran, J.M., y Rodríguez, L.F. 1982, *Ap. J.*, **262**, 619.
27. "On the Intensity and Shape of Radio Recombination Lines from Ionized Stellar Winds," Rodríguez, L.F. 1982, *Rev. Mexicana Astron. Astrof.*, **5**, 179.
28. "Water Vapor Masers Located Near Herbig-Haro Objects," Haschick, A.D., Moran, J.M., Rodríguez, L.F., y Ho, P.T.P. 1983, *Ap. J.*, **265**, 281.
29. "The Galactic Gradient in Electron Temperature from Observations of Low-Density H II Regions," Garay, G., y Rodríguez, L.F. 1983, *Ap. J.*, **266**, 263.
30. "Stellar Winds and Molecular Clouds: T Tauri Stars," Calvet, N., Cantó, J., y Rodríguez, L.F. 1983, *Ap. J.*, **268**, 739.
31. "Are Interstellar Toroids the Focusing Agent of the Bipolar Molecular Outflows?" Torrelles, J.M., Rodríguez, L.F., Cantó, J., Carral, P., Marcaide, J., Moran, J.M., y Ho, P.T.P. 1983, *Ap. J.*, **274**, 214.
32. "A Search for Molecular Outflows Associated with Peculiar Nebulosities and Regions of Star Formation," Torrelles, J.M., Rodríguez, L.F., Cantó, J., Marcaide, J., y Gyulbudaghian, A.L. 1983, *Rev. Mexicana Astron. Astrof.*, **8**, 147.
33. "Stellar Winds and Molecular Clouds: A Search for Ionized Stellar Winds," Rodríguez, L.F., y Cantó, J. 1983, *Rev. Mexicana Astron. Astrof.*, **8**, 163.
34. "Stellar Winds and Molecular Clouds: Herbig Be and Ae Type Stars," Cantó, J., Rodríguez, L.F., Calvet, N., y Levreault, R.M. 1984, *Ap. J.*, **282**, 631.
35. "Infrared Light Curves of the Central Object of NGC2346: The Shape of the Obscuring Cloud," Roth, M., Echevarría, J., Tapia, M., Carrasco, L., Costero, R., y Rodríguez, L.F. 1984, *Astron. and Astrophys.*, **137**, L9.
36. "On the Abundance of Atomic and Molecular Hydrogen in the Outer Parts of Young Planetary Nebulae," Rodríguez, L.F., y García-Barreto, J.A. 1984, *Rev. Mexicana Astron. Astrof.*, **9**, 153.
37. "Time-Variable, Excess Radio Emission from Cyg OB2 No. 5," Persi, P., Ferrari-Toniolo, M., Tapia, M., Roth, M., y Rodríguez, L.F. 1985, *Astron. and Astrophys.*, **142**, 263.

38. "VLA Observations of Ammonia and Continuum in Regions with High-Velocity Gaseous Outflows," Torrelles, J.M., Ho, P.T.P., Rodríguez, L.F., y Cantó, J. 1985, *Ap. J.*, **288**, 595.
39. "Herbig-Haro Objects 1 and 2: Another Infrared Candidate for their Energy Source," Rodríguez, L.F., Roth, M., y Tapia, M. 1985, *M. N. R. A. S.*, **214**, 9p.
40. "Detection of Radio Continuum Emission from Herbig-Haro Objects 1 and 2 and from their Central Exciting Source," Pravdo, S.H., Rodríguez, L.F., Curiel, S., Cantó, J., Torrelles, J.M., Becker, R.H., y Sellgren, K. 1985, *Ap. J. (Lett.)*, **293**, L35.
41. "An Ammonia Toroid Aligned Perpendicular to the HH1 and HH2 Bipolar Outflow," Torrelles, J.M., Cantó, J., Rodríguez, L.F., Ho, P.T.P., y Moran, J.M. 1985, *Ap. J. (Lett.)*, **294**, L117.
42. "High Velocity OH Near Young Stellar Objects: L1551," Mirabel, I.F., Rodríguez, L.F., Cantó, J., y Arnal, E.M. 1985, *Ap. J. (Lett.)*, **294**, L39.
43. "Radio Observations of the Young Planetary Nebula NGC6302," Rodríguez, L.F., García-Barreto, J.A., Cantó, J., Moreno, M.A., Torres-Peimbert, S., Costero, R., Serrano, A., Moran, J.M., y Garay, G. 1985, *M. N. R. A. S.*, **215**, 353.
44. "Radio and Infrared Observations of Cyg OB2 No. 5," Rodríguez, L.F., Cantó, J., Sarmiento, A., Roth, M., Tapia, M., Persi, P., y Ferrari-Toniolo, M. 1985, in *Radio Stars* (Reidel: Dordrecht), p. 127.
45. "Multifrequency Observations of the Region Associated with the Cometary Nebula GM24," Tapia, M., Roth, M., Rodríguez, L.F., Cantó, J., Persi, P., Ferrari-Toniolo, M., y López, J.A. 1985, *Rev. Mexicana Astron. Astrof.*, **11**, 83.
46. "Neutral Hydrogen and Continuum VLA Observations of the Planetary Nebulae NGC6302 and NGC2440," Rodríguez, L.F., García-Barreto, J.A., y Gómez, Y. 1985, *Rev. Mexicana Astron. Astrof.*, **11**, 109.
47. "A Search for Radio Continuum Emission from Evolved Stars with Asymmetric OH Maser Emission," Rodríguez, L.F., Gómez, Y., y García-Barreto, J.A. 1985, *Rev. Mexicana Astron. Astrof.*, **11**, 139.
48. "Vientos Estelares y Nubes Moleculares," Calvet, N., Cantó, J., Rodríguez, L.F., y Torrelles, J.M. 1985, *Memorias del Primer Encuentro de Astronomos Iberoamericanos*, p. 152, Granada, España.
49. "High Velocity OH in Star Forming Regions," Mirabel, I.F., Ruiz, A., Rodríguez, L.F., y Cantó, J. 1986, in "Masers, Molecules and Mass Outflows in Star Forming Regions," ed. A.D. Haschick, Haystack Observatory, p.189.
50. "Dense Cores and Bipolar Outflows," Rodríguez, L.F. 1986, in "Masers, Molecules and Mass Outflows in Star Forming Regions," ed. A.D. Haschick, Haystack Observatory, p. 155.
51. "The Double Radio Source Associated with L1551 IRS5: Binary System or Ionized Circumstellar Torus?" Rodríguez, L.F., Cantó, J., Torrelles, J.M., y Ho, P.T.P. 1986, *Ap. J. (Lett.)*, **301**, L25.
52. "Correlations Between Observational Parameters of the Condensations in Herbig-Haro 2," Cantó, J., y Rodríguez, L.F. 1986, *Rev. Mexicana Astron. Astrof.*, **13**, 57.

53. "The Kinetic Temperature Gradient and the Structure of a Thin Molecular Disk in Cepheus A," Torrelles, J.M., Ho, P.T.P., Rodríguez, L.F., y Cantó, J. 1986, *Ap. J.*, **305**, 721.
54. "Ammonia Observations of Regions with Molecular Outflows," Torrelles, J.M., Ho, P.T.P., Moran, J.M., Rodríguez, L.F., y Cantó, J. 1986, *Ap. J.*, **307**, 787.
55. "Rotating and Expanding Ultracompact H II Regions," Garay, G., Rodríguez, L.F., y Van Gorkom, J.H. 1986, *Ap. J.*, **309**, 553.
56. "Bipolar Outflows: What is the Collimating Mechanism?" Rodríguez, L.F. 1986, *Publications of the Astronomical Society of the Pacific*, **98**, 1012.
57. "Elongated Structures Near Stars: Jets or Projection Effects?" Cantó, J., Sarmiento, A., y Rodríguez, L.F. 1986, *Rev. Mexicana Astron. Astrof.*, **13**, 107.
58. "Radial Systems of Dark Globules in the Association Cep OB2," Gyulbudaghian, A.L., Rodríguez, L.F., y Cantó, J. 1986, *Astrophysics*, **24**, 201.
59. "Disks and Toroids around Young Stars," Rodríguez, L.F. 1987, in "Star Forming Regions," IAU Symp. 115, ed M. Peimbert, y J. Jugaku (Dordrecht: Reidel), p. 239.
60. "Three New H₂O Masers Located Near Herbig-Haro-Like Nebulosities," Gyulbudaghian, A.L., Rodríguez, L.F., y Mendoza-Torres, E. 1987, *Rev. Mexicana Astron. Astrof.*, **15**, 53.
61. "Infrared Photometry of Brun 276," Mendoza, E.E., y Rodríguez, L.F. 1987, Information Bulletin on Variable Stars, No. 2996.
62. "High Angular Resolution CO Mapping of the High-Velocity Gas Associated with HL/XZ Tau and V645 Cyg (GL 2789)," Torrelles, J.M., Anglada, G., Rodríguez, L.F., Cantó, J., y Barral, J.F. 1987, *Astron. and Astrophys.*, **177**, 171.
63. "OH Outflows in Star-Forming Regions," Mirabel, I.F., Ruiz, A., Rodríguez, L.F., y Cantó, J. 1987, *Ap. J.*, **318**, 729.
64. "A Model for the Thermal Radio Continuum Emission Produced by a Shock Wave and its application to the Herbig-Haro Objects 1 and 2," Curiel, S., Cantó, J., y Rodríguez, L.F. 1987, *Rev. Mexicana Astron. Astrof.*, **14**, 595.
65. "VLA Observations of Twice Ionized Helium in NGC6302," Gómez, Y., Rodríguez, L.F., y García-Barreto, J.A. 1987, *Rev. Mexicana Astron. Astrof.*, **14**, 560.
66. "Interaction of the High-Density Gas with the Bipolar Outflow in Cepheus A," Torrelles, J.M., Ho, P.T.P., Rodríguez, L.F., Cantó, J., y Moran, J.M. 1987, *Ap. J.*, **321**, 884.
67. "Protoplanetary Nebulae," Rodríguez, L.F. 1987, in Planetary and Protoplanetary Nebulae: From IRAS to ISO, ed. A. Preite Martínez (Reidel: Dordrecht), p. 55.
68. "Are the High-Velocity Molecular Outflows Really Clumpy?" Cantó, J., Rodríguez, L.F., y Anglada, G. 1987, *Ap. J.*, **321**, 877.
69. "The Spectral Hallmark of a Contracting Protostellar Fragment," Anglada, G., Rodríguez, L.F., Cantó, J., Estalella, R., y López, R. 1987, *Astron. and Astrophys.*, **186**, 280.
70. "Water Vapor Masers Associated with Young Visible Stars," Rodríguez, L.F., Haschick, A.D., Torrelles, J.M., y Myers, P.C. 1987, *Astron. and Astrophys.*, **186**, 319.

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