

Curriculum Vitae

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1 Informações Pessoais

Nome: **José Antonio de Freitas Pacheco**

Data e local de nascimento: **14/12/1942 em São Paulo**

Carteira de identidade: n^o 2.806.236 (*SI/SP*)

Endereço Profissional: **Observatoire de la Côte d'Azur B.P. 4229 - Nice Cedex 4 - 06304 - France**

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2 Títulos Universitários

B.Ph. - Universidade de S.Paulo - 1965

Docteur es Sciences Physiques - Universidade de Nice - 1971

Professor Adjunto - Universidade de S.Paulo - 1977

Professor Titular - Universidade de S.Paulo - 1985

Pesquisador Titular do CNAP (Comité Nationale des Astronomes et des Physiciens) - Observatoire de la Côte d'Azur - 1995

3 Funções Acadêmicas

Chefe do Departamento de Astronomia - Universidade de S. Paulo (USP) - 1973/1976

Presidente da Comissão de Pós Graduação do IAG-USP - 1973/1977 e 1987/1989

Presidente da Sociedade Astronômica Brasileira - 1974 (primeiro presidente e fundador) e 1978/1982

Presidente da Comissão Brasileira de Astronomia (CNPq) para a UAI - 1974/1979 e Vice-Presidente de 1980/1982

Diretor do Observatório Nacional - CNPq/MCT - 1979/1981

Diretor do Departamento de Astrofísica - Observatório Nacional - 1982/1984

Presidente da Comissão de Pós Graduação do Observatório Nacional - 1982/1986

Diretor do Instituto Astronômico e Geofísico da Universidade de S. Paulo - 1989/1993

Diretor Geral do Observatório da Côte d'Azur - 1994/1999

4 Comissões Acadêmicas

Membro da Congregação do IAGUSP - 1972/1979 e 1985/1994

Membro do Conselho Técnico Científico (CTC) do Instituto Nacional de Pesquisas Espaciais (INPE) - 1977/1980 e 1993/1995

Membro do Comitê de Física e Astronomia (CNPq) - 1983/1984

Membro do Conselho Universitário da USP - 1989/1993

Membro do Conselho Deliberativo do CNPq - 1990/1992

Presidente da Comissão de Ciências da Engenharia, da Matéria e do Universo da Região PACA (Provence-Alpes-Côte d'Azur) - 1996/1999

Membro do Conselho Científico do Laboratório de Geofísica "Geoscience Azur" - Universidade de Nice-Sophia Antipolis - 1997/1999

Membro do Conselho Científico do Laboratório de Astrofísica da Universidade de Nice-Sophia Antipolis - 2000/2007

Membro do Conselho Regional para o Desenvolvimento Científico e Tecnológico da Região PACA (Provence-Alpes-Côte d'Azur) - 1996/2006

5 Associações Científicas

Academia Brasileira de Ciências

Academia de Ciências do Estado de S. Paulo

União Astronômica Internacional

6 Honrarias

- Medalha da Sociedade Brasileira para o Progresso da Ciência (SBPC) - 1975

- Medalha do Mérito Científico - Ordem de Comendador - 1995

- Grand-Croix do Mérito Científico - 2000

7 Mestrados Orientados

1. Luiz Arakaki - "Evolution of the Galactic Disk and the Light Elements" - Instituto Tecnológico da Aeronáutica - 1972
2. José R. Bonilha - "Wave Propagation in Relativistic Plasmas" - Universidade de S.Paulo - 1973
3. Ronaldo E. Souza - "Evolution of Fossil HII Regions" - Universidade de Minas Geraes - 1973
4. Joel C.C. Filho - "The Production of Light Elements in the Interstellar Medium" - Universidade de S.Paulo - 1974
5. Maria F. Nave - "Some Problems in X-Ray Astronomy" - Universidade de S.Paulo - 1974
6. J.E. Steiner - "A Model for Cygnus X-1" - Universidade de S.Paulo - 1975
7. A. Damineli Neto - "The Binary Source Her X-1" - Universidade de S.Paulo - 1976
8. Laerte S. Junior - "The Masses of Binary X-Ray Sources" - Universidade de S.Paulo - 1976
9. F. Jablonsky - "A Study on Cataclismic Variables" - Universidade de S.Paulo - 1981
10. L. Viadana - "Mass Loss from Central Stars of Planetary Nebulae" - Observatório Nacional - 1983
11. Sandra dos Anjos - "Some Problems Related with the Evolution of Galaxy Clusters" - Universidade de S.Paulo - 1984
12. T.C.C. da Silva - "Environmental Effects in the Morphology of Galaxies" - Observatório Nacional - 1986
13. S. Junqueira - "Dynamics of Binary Galaxies" - Observatório Nacional - 1986
14. M.A. Gaya - "A Model for the Infrared Emission of NGC 7027" - Universidade de S.Paulo - 1986
15. V.P. Bichara - "A Burst Model for Cen A" - Observatório Nacional - 1987
16. M.A. Machado - "Carbon Abundances in WC Stars" - Observatório Nacional - 1988
17. O.D. Miranda - "Galactic Winds and X-Ray Emission from Elliptical Galaxies" - Universidade de S.Paulo - 1992
18. M. Catelan - "Synthetic Models for the Horizontal Branch Morphology of Globular Clusters" - Universidade de S.Paulo - 1992
19. T. Regimbau - "Les Pulsars: Etude Statistique et Modelisation" - Universidade de Nice-Sophia Antipolis - 1998
20. E. Fornero - "Effeti del Vento Gallattico Sull'Evoluzione Chimica delle Galassie Ellittiche" - Tesi di Laurea - Università degli Studi di Torino - 1998
21. J. Frémaux - "Evolution de Restes de Supernovae: l'influence du milieu interstellaire" - Universidade de Nice-Sophia Antipolis - 2002
22. S. Vincent - "Formation de Systèmes Doubles d'Etoiles Neutrons" - Universidade

de Nice-Sophia Antipolis - 2002

23. S. Peirani - "Recherche de Supernovae Proches" - Universidade de Nice-Sophia Antipolis - 2002

24. F. Durier - "Accrétion versus Fusion dans un Univers Dominé par la Matière Noire" - Universidade de Nice-Sophia Antipolis - 2002

25. D. Gherson - "Croissance de Semences des Trous Noirs Primordiaux" - Universidade de Lyon - 2004

26. N. Juan - "Croissance Non-Adiabatique de Trous Noirs Supermassifs" - Universidade de Nice-Sophia Antipolis - 2004

27. Ch. Filloux - "Processus de Croissance des Trous Noirs" - Universidade de Nice-Sophia Antipolis - 2005

8 Teses de Doutorado

1. S.J. Codina - "Formation of Interstellar Grains" - Universidade de S.Paulo - 1977

2. J.E. Steiner - "Accretion Disks in Compact Stars" - Universidade de S.Paulo - 1979

3. R.E. de Souza - "Environmental Effects in Groups and Clusters of Galaxies" - Universidade de S.Paulo - 1983

4. Horácio A. Dottori - "Absorption Spectra, Optical Continuum and Reddening of Normal and Active Nuclei of Spiral Galaxies" - Universidade Federal do Rio Grande do Sul - 1983 (co-direction avec E. Rocha Vieira)

5. M.L.Q. Tancetti - "Evolution of Stellar Population II Systems" - Universidade de S. Paulo - 1987

6. A. Damineli Neto - "Circumstellar Matter around Be Stars" - Universidade de S.Paulo - 1988

7. V.G. Ortega - "Hydrodynamical Models for Elliptical Galaxies" - Observatorio Nacional - 1989

8. D.F. Lopes - "Peculiar Luminous Stars" - Observatorio Nacional - 1989

9. F.X. de Araújo - "Axi-Symmetric Radiative Driven Winds" - Observatorio Nacional - 1990

10. R. Bruno - "A New Determination of the Density Parameter" - Observatorio Nacional - 1992

11. W.F. Velloso - "A Contribution to the VIRGO Project" - Universidade de S.Paulo - 1992

12. S. Junqueira - "Tidal Effects in Binary Galaxy Systems" - Observatorio Nacional - 1993

13. A.C. Borges - "Spectral Evolution of Elliptical Galaxies" - Universidade de S.Paulo - 1993

14. R.D.D. Costa - "Chemical Abundances in Planetary Nebulae and Symbiotic Systems" - Universidade de S.Paulo - 1993

15. T.P. Idiart - "Calibration of Metallicity Indices: Application to the Galactic Bulge and Bulge of Spirals" - Universidade de S.Paulo - 1995
16. M. Catèlan - "Evolutionary Studies of Population II Systems: The Horizontal Branch" - Universidade de S.Paulo - 1996
17. T. Regimbau - "Étoiles Neutrons et Ondes Gravitationnelles" - Universidade de Nice - Sophia Antipolis - 2001
18. E. Lagadec - "Apport des Observations Infrarouges pour l'Étude de la Perte de Masse des Étoiles Évoluées" - Universidade de Nice-Sophia Antipolis - 2005 (co-orientação com D. Mekarnia).
19. S. Peirani - "Aspects Dynamiques et Physiques de la Matire Noire" - Universidade de Nice-Sophia Antipolis - 2005
20. S. Vincent - "Fréquences d'Oscillation des Modes Axisymétriques des Étoiles à Neutrons" - Universidade de Nice-Sophia Antipolis - 2008
21. F. Durier - "Formation et Evolution des Galaxies: Propriétés Photométriques, Dynamiques et Chimiques" - Universidade de Nice-Sophia Antipolis - 2009
22. Ch. Filloux - "Evolution des Trous Noirs Supermassifs Présents au Coeur des Galaxies" - Universidade de Nice-Sophia Antipolis - 2009

9 Artigos Científicos

1. Phase Integrals in Pulsation Theory of Variable Stars. Anais da Academia Bras. de Ciencias 39, 413, 1967
2. Oscillations Radiales Traitées par la Méthode des Integrales de Phase. C.R. Acad. Sc. Paris 266, 1170, 1968
3. Thermal Instability in the Interstellar Gas. A&A 3, 368, 1969
4. Galactic X-Ray Background Component. Nature 227,1270, 1970
5. Synchroton Emission from High Energy Cosmic-Ray Electrons as an Explanation of the Cosmic X-Ray Excess. A&A 8, 420, 1970
6. X-Ray Emission at 1/4 keV by Bremsstahlung Suprathermal Protons. Nature Phys.Sc. 229, 84, 1971
7. The Propagation of Cosmic Ray Nuclei. A&A 13, 58, 1971
8. On the Heating of the Interstellar Gas. Rev.Bras.de Fisica 2, 29, 1972
9. Extragalactic Cosmic Rays and the Production of Light Elements. A&A 18, 450, 1972
10. A Phenomenological Study of Cosmic Ray Propagation. A&A 23, 337, 1973. J.A. de Freitas Pacheco and F. LeGuet
11. Supernova Remnants and Gamma-Ray Sources. Astrophys. Letters 13, 97,1973
12. The Origin of Cosmic Rays. Astrophys. Letters 15, 155, 1973
13. A Model for the Binary X-Ray Source 2U1700-37. Nature 249, 637, 1974

14. Possible Variations in the Secondary Minimum of HD153919=2U1700-37. *A&A* 33, 131, 1974. J.A. de Freitas Pacheco, J.E. Steiner and G.R. Quast
15. Photoelectric Observations of 2U0900-40. *A&A* 35, 301, 1974. J.A. de Freitas Pacheco and G.R. Quast
16. Origin of the Optical Emission from Sco X-1. *Nature* 253, 699, 1975
17. Masses of Binary X-Ray Sources. *Astrophys. Sp. Sci.* 32, 205, 1975
18. The Spectrum of Cyg X-1:A Theoretical Model. *Astrophys. Sp. Sci.* 39, 487, 1976. J.A. de Freitas Pacheco and J.E. Steiner
19. Characteristics of Nova Scuti 1975. *Rev. Bras. de Fisica* 5, 397, 1975
20. A Revisited Model for the Binary X-Ray Source 3U1700-37 = HD152919. *A&A* 50, 385, 1976
21. The Electromagnetic Emission from Sco X-1. *A&A* 55, 111,1977. J.A. de Freitas Pacheco, J.E. Steiner and A. Damineli Neto
22. The Chemical Composition of Nova Cephei 1971. *MNRAS* 181, 421, 1977
23. On the He Abundance of Nova Cephei 1971 Ejecta. *MNRAS* 186, 617, 1979
24. The Physical Parameters of HD152667=OAO 1653-40. *A&A* 70, L49, 1978.
25. The Ionization of the Shell of Novae: A Time Dependent Model. *Astrophys. Sp. Sci.* 61, 91, 1979. L. Sodr e and J.A. de Freitas Pacheco
26. Search for Black-Holes: The Nature of the Unseen Companions of HD152667 and HD72754. *Rev. Bras. de Fisica* 8, 418, 1978
27. Observational Aspects of Black-Holes (Invited Paper). *Proc. First IAU Regional Latin American Meeting-1978*, eds. A. Moreno and H. Moreno,pg 203
28. Astronomical Observations with the Optical Multichannel Analyser of the University of S.Paulo. *Rev. Bras. de Fisica* 9, 45, 1979. S.J. Codina and J.A. de Freitas Pacheco
29. Mass Loss from Hot Stars (Review Paper). *Rev. Mex. Astron. y Astrof.* 6, 181, 1981
30. Infrared Excess and Line Emission from Be Stars. *MNRAS* 198,659,1982. A. Damineli Neto and J.A. de Freitas Pacheco
31. Mass Loss from Be Stars Derived from UV Spectra. *MNRAS* 199,591,1982
32. Analysis of the IUE and Optical Spectra of the Peculiar Be Star HD87643. *A&A* 108,111,1982. J.A. de Freitas Pacheco, D. Gilra and S.R. Pottasch
33. Environmental Effects on the Flattening Distribution of Galaxies. *AJ* 88,1435,1983. J.A. de Freitas Pacheco, R.E. de Souza and L. Arakaki
34. The Spectrum of HD110432. *A&A Sup.* 57, 239, 1984. S.J. Codina-Landaberry, J.A. de Freitas Pacheco, D.F. Lopes and D. Gilra
35. Statistical Masses of Abell Clusters. *Astrophys. Sp. Sci.* 105, 393, 1984
36. The le Blanc Bands of CN in Comets. *Astrophys. Sp. Sci.* 108,153,1985. P.D.Singh, A.Gomes Balboa and J.A. de Freitas Pacheco
37. HD87643 a B[e] Star with a Cold Wind. *A&A* 152,101,1985. J.A. de Freitas Pacheco, S.J. Codina-Landaberry, D.F. Lopes and P.L. Selvelli

38. The Chemical Composition of the Nova Muscae 1983 Ejecta. MNRAS 214, 481, 1985. S.J. Codina-Landaberry and J.A. de Freitas Pacheco
39. A New Determination of the Peculiar Virgocentric Velocity of the Local Group of Galaxies. AJ 90, 1007, 1985
40. H-beta Fluxes from Planetary Nebulae. Rev. Bras. de Fisica 15, 70, 1985. L. Viadana and J.A. de Freitas Pacheco
41. New Color and Zanstra Temperatures for 15 Central Stars of Planetary Nebulae. MNRAS 220,107,1986. J.A. de Freitas Pacheco, S.J. Codina-Landaberry and L. Viadana
42. More About the Collapse of a Radiating Star. MNRAS 220,405,1986. A.K.G. de Oliveira, J.A. de Freitas Pacheco and N.O. Santos
43. Physical Characteristics of two Low-Excitation Planetary Nebulae. Rev. Mex. Astron. y Astrof. 15,89,1987. J.A. de Freitas Pacheco and J.G. Veliz
44. The Physical Conditions in SwSt 1: The Central Star and the Nebula. MNRAS 227,773,1987. J.A. de Freitas Pacheco and J.G. Veliz
45. The Velocity Dispersion Among Galaxies. Astrophys.Letters 27, 35, 1988. J.A. de Freitas Pacheco and R. Bruno
46. Mass Loss and Carbon Abundance in WC Stars. AJ 96 , 365 , 1988. J.A. de Freitas Pacheco and M.A. Machado
47. Spectrophotometric Observations of Comet Halley During 1985-1986 Apparition. MNRAS 235, 457, 1988. J.A. de Freitas Pacheco, S.J. Codina and P.D. Singh
48. Mass-to-Luminosity Ratio in Binary Galaxies. Astrophys. Sp. Sci. 149, 141, 1988. J.A. de Freitas Pacheco and S. Junqueira
49. The Chemical Composition of the Emitting Gas in HM Sge. ApJ 337,520,1989. J.A. de Freitas Pacheco, S.J. Codina and D.F. Lopes
50. Self Consistent Hydrodynamical Models for E-Galaxies. AJ 97,1000,1989. V.G. Ortega and J.A. de Freitas Pacheco
51. A New Estimate of the Galactic Halo Mass. Astrophys. Sp. Sci. 153, 67, 1989. A.C. Borges and J.A. de Freitas Pacheco
52. Chemical Abundance in the SN 1987A Ejecta. MNRAS 240,179,1989
53. Friedmann-like Collapsing Radiating Sphere. ApJ 342, 976, 1989. J. Lemos, R. Chan, N.O. Santos and J.A. de Freitas Pacheco
54. Pulsar Test of a Violation of Discret Symmetries in Gravitation. Phys. Lett. A 138, 5, 1989. J. lo Secco, G. Matsas, A. Natale and J.A. de Freitas Pacheco
55. Radiatively Driven Winds with Azimuthal Symmetry: Application to Be Stars. MNRAS 241, 543, 1989. F.X. de Araújo and J.A. de Freitas Pacheco
56. A Spectroscopic Study of Nova Cen 1986. ApJ 347,483,1989. J.A. de Freitas Pacheco, R.D.D. Costa and S.J. Codina
57. Gaseous Content of Galaxies Inside Groups. Rev. Mex. Astron. y Astrof. 17,127,1989. T.C. Couto da Silva and J.A. de Freitas Pacheco
58. Chemical Abundances of Planetary Nebulae. An. Acad. Bras. Cienc. 61, 389,1989. J.A.de Freitas Pacheco, R.D.D. Costa, W.J. Maciel and S.J.Codina

59. Analysis of the Optical Emission Lines of SN 1987A. *AJ* 99, 664, 1990
60. Asymmetric Winds in Be Stars. *Astrophys. Sp. Sci.* 163, 49, 1990. F.X. de Araújo and J.A. de Freitas Pacheco
61. Metal-Poor Planetary Nebulae with Low Mass Central Stars. *A&A* 239, 301, 1990. W.J. Maciel, J.A. de Freitas Pacheco and S.J. Codina
62. Ground-Based Observations of Comets Giacobini-Zinner and Hartley-Good. *A&A* 246,597,1991. S.J. Codina, P.D. Singh and J.A. de Freitas Pacheco
63. Abundances of Southern Type I Planetary Nebulae. *A&A* 250,159,1991. J.A. de Freitas Pacheco, W.J. Maciel, R.D.D. Costa and B. Barbuy
64. Diffusion Processes in the Collapse of a Radiating Spherical Body. *Ap.J.* 382, 255, 1991. R. Chan, L. Herrera, J.A. de Freitas Pacheco and N.O. Santos
65. Chemical Abundances in Symbiotic Nebulae. *A&A* 257, 619,1992. J.A. de Freitas Pacheco and R.D.D. Costa
66. A New Age-Metallicity Relation for Galactic Globular Clusters in the alpha-enhanced Scenario: Cosmological Implications. *A&A* 258, L5,1992. M. Catelan and J.A. de Freitas Pacheco
67. A Spectroscopic Study of Luminous Peculiar B-type Stars. *A&A* 261, 482, 1992. D.F. Lopes, A. Damini Neto and J.A. de Freitas Pacheco
68. Chemical Abundances of Disk Planetary Nebulae. *A&A* 261, 579, 1992. J.A. de Freitas Pacheco, W.J. Maciel and R.D.D. Costa
69. The AG Car Nebula Revisited. *A&A* 266, 360, 1992. J.A. de Freitas Pacheco, A. Damini Neto, R.D.D. Costa and R. Viotti
70. Diquark Abundance in Stellar Matter. *Phys. Review D* 46, 4754, 1992. J.A. de Freitas Pacheco, J.E. Horvath and J.C.N. de Araújo
71. Mass Loss Rates and C/He Ratios in the Winds of Central Stars of Planetary Nebulae with WC Spectra. *MNRAS* 260, 401,1993. J.A. de Freitas Pacheco, R.D.D. Costa, F.X. de Araújo and D. Petrini
72. Oxygen, Sulphur, Argon and the Chemical Evolution of the Galactic Disk. *ApJ* 403, 673, 1993
73. The Effects of QCD Parameters on the Quark Core Dimensions in Compact Stars. *MNRAS* 260, 499, 1993. J.A. de Freitas Pacheco, J.E. Horvath, J.C.N. de Araújo and M. Cattani
74. Type I Planetary Nebulae in the LMC: Oxygen, Sulphur and Argon Abundances as Tracers of Chemical Enrichment. *A&A* 271, 429, 1993. J.A. de Freitas Pacheco, B. Barbuy, R.D.D. Costa and T.P. Idiart
75. He2-90: A Southern Planetary Nebula with Low Metal Abundances. *A&A* 276, 184, 1993. R.D.D. Costa, J.A. de Freitas Pacheco and W.J. Maciel
76. Analysis of Evolutionary Period Shift Predictions for RR Lyrae Stars in Galactic Globular Clusters. *AJ* 106, 175, 1993. M. Catelan and J.A. de Freitas Pacheco
77. Dark Matter in Sc Galaxies. *AJ* 106, 899, 1993. V.G. Ortega and J.A. de Freitas Pacheco
78. Age Differences Between Old Stellar Populations from the HB Morphology-Metallicity

- Diagrams. *AJ* 106, 1858, 1993. M. Catelan and J.A. de Freitas Pacheco
79. Abundances of Non-Type I Planetary Nebulae in the LMC. *A&A* 279, 567, 1993. J.A. de Freitas Pacheco, R.D.D. Costa and W.J. Maciel
80. Radiative Wind Models with Azimuthal Symmetry - II: A Latitude-dependent Wind for Be and B[e] Stars. *MNRAS* 267, 501, 1994. F.X. de Araújo, J.A. de Freitas Pacheco and D. Petrini
81. Oxygen Abundances in the LMC: A Prediction on SNII/SNIa Rates. *A&A* 283, 32, 1994. B. Barbuy, J.A. de Freitas Pacheco and S. Castro
82. Chemical Abundances of Symbiotic Nebulae - II. *A&A* 285, 998, 1994. R.D.D. Costa and J.A. de Freitas Pacheco
83. Oxygen as a Tracer of the Galactic Chemical Evolution (Invited Paper). *Astron. Astrophys. Transact* 5, 127, 1994
84. Horizontal-Branch Models and the Second-Parameter Phenomenon: the case of NGC 288 and NGC 362. *A&A* 289, 394, 1994. M. Catelan and J.A. de Freitas Pacheco
85. Circularization Time of Binary Galaxies. *AJ* 108, 1627, 1994. S. Junqueira and J.A. de Freitas Pacheco
86. The Massive Winds of Luminous Peculiar B-Type Stars. *Astrrophys. Sp. Sci.* 219, 267, 1994. F.X. de Araújo and J.A. de Freitas Pacheco
87. Gravitational Waves from Wobbling Pulsars. *MNRAS* 271, L31, 1994. J.C. Araújo, J.A. de Freitas Pacheco, J.E. Horvath and M. Cattani
88. Empirical Calibration of Metallicity Indices for Single Stellar Populations. *AJ* 109, 2218, 1995. T.P. Idiart and J.A. de Freitas Pacheco
89. Deformation of Rapidly Rotating Compact Stars. *A&A* 301, 433, 1995. J.C.N. de Araújo, J.A. de Freitas Pacheco, M. Cattani and J.E. Horvath
90. Horizontal-Branch Models and the Second Parameter Phenomenon II: The case of M13 and M3. *A&A* 297, 345, 1995. M. Catelan and J.A. de Freitas Pacheco
91. Horizontal Branch Morphology and H β Indices of Globular Clusters. *A&A* 302, 718, 1995. J.A. de Freitas Pacheco and B. Barbuy
92. Age and Abundance Effects in Single Stellar Populations. *AJ* 110, 2408, 1995. A.C. Borges, T. Idiart, J.A. de Freitas Pacheco and F. Thévenin
93. New Abundances of Southern Planetary Nebulae. *A&AS* 116, 249, 1996. R.D.D. Costa, C. Chiappini, W.J. Maciel and J.A. de Freitas Pacheco
94. The Role of Thermal Instabilities on the Mass Function of MACHOs. *ApJ Letters* 456, L97, 1996. E.M. Gouveia dal Pino, J.E. Horvath and J.A. de Freitas Pacheco
95. Metallicity and Abundance Ratios in Elliptical Galaxies. *MNRAS* 278, 841, 1996
96. He 2-104 Revisited. *A&A* 309, 629, 1996. J.A. de Freitas Pacheco and R.D.D. Costa
97. The Helium-Core Mass at the Helium Flash in Low-Mass Red Giant Stars: Observations and Theory. M. Catelan, J.A. de Freitas Pacheco and J.E. Horvath. *ApJ* 461, 231, 1996
98. Appearance and Disappearance of the 511 keV Line as a Consequence of Changes in the Annihilation Regime. V.V. Burdyuzha, V.L. Kauts and J.A. de Freitas Pacheco. *A&A* 313, 485, 1996

99. Metallicity Indices for Multi-Population Models: I. The Galactic Bulge. T.P. Idiart, J.A. de Freitas Pacheco and R.D.D. Costa. *AJ* 111, 1169, 1996
100. Metal-Rich Globular Clusters of the Galaxy: morphology of the helium-burning clump, and the determination of relative ages through the δV method. *PASP* 108, 166, 1996. M. Catelan and J.A. de Freitas Pacheco
101. Abundances in Type I Planetary Nebulae: is the Galactic Disk presently oxygen deficient ? *A&A* 313, 924, 1996. R.D.D. Costa, J.A. de Freitas Pacheco, J.A. de Franca Jr.
102. Metallicity Indices for Multi-Population Models: II. Bulges of Galaxies. T.P. Idiart, J.A. de Freitas Pacheco and R.D.D. Costa. *AJ* 112, 254, 1996
103. Chemical Evolution of Elliptical Galaxies: Abundance Determinations from Population Synthesis (Invited Paper). *Rev. Mex. Astr. Astrophys.* 4, 51, 1996. Conference Series.
104. Age and Abundance Effects in Single Stellar Populations: Application to M31 Clusters. *A&A* 319, 394, 1997
105. Gas and Dust Release Rates, and Color of Grains in Comets P/Halley, P/Giacobini-Zinner and P/Hartley-Good. P.D. Singh, W.F. Huebner, R.D.D. Costa, S.J. Codina, J.A. de Freitas Pacheco. *Plan. Sp. Sci.* 45, 455, 1997
106. Atomic Emission Lines in the Spectrum Observed During the Impact Between the L-Fragment of Comet D/Shoemaker-Levy 9 and Jupiter. R.D.D. Costa, J.A. de Freitas Pacheco, P.D. Singh, A.A. de Almeida and S.J. Codina. *ApJ* 485, 380, 1997
107. The Infrared CaII Triplet as a Metallicity Indicator of Stellar Populations. T.P. Idiart, F. Thévenin and J.A. de Freitas Pacheco. *AJ* 113, 1066, 1997
108. Constraints on the Early Galactic Cosmic Ray Activity from Light Element Abundances - *Astr. Phys.* 7, 15, 1997
109. A Photometric System for Detection of Embedded WR Stars. A. Damineli Neto, F. Jablonski, L.C. de Freitas, J.A. de Freitas Pacheco. *PASP* 109, 633, 1997
110. Gravitational Wave Emission from Galactic Radio Pulsars. J.A. de Freitas Pacheco & J.E. Horvath. *Phys. Rev. D* 56, 859, 1997
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