

CURRICULUM VITAE

Name : Jorge Luis Meléndez Moreno
Date of birth : 9 - 20 – 1970
Citizenship : Peruvian
Address : Centro de Astrofísica da Universidade de Porto
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Research Interests

- Atomic and Molecular Data / UV, Optical and Infrared Spectroscopy / Spectrum Synthesis
- Fundamental Physical Parameters and Chemical Abundances in FGKM stars
- Giant Stars with Planets / Solar Twins “in time” / Habitability
- Stellar Populations (Disk / Halo / Bulge) / Star Clusters / Chemical Evolution of the Galaxy

Education

B.Sc. in Physics. Universidad Nacional Mayor de San Marcos (Peru), 1987-1994

M.Sc. in Astrophysics. Instituto Nacional de Pesquisas Espaciais (Brazil)

Thesis: Explosões solares decimétricas tipo III associadas à fase impulsiva dos *flares* solares

Advisor: Dr. Hanumant S. Sawant. (03/1995 – 02/1997)

Ph.D. in Astronomy. Departamento de Astronomia, Universidade de São Paulo (Brazil).

Thesis: Espectroscopia no IR – Abundâncias de oxigênio em estrelas pobres em Metais

Advisor: Prof. Dr. Beatriz Barbuy. (03/1997- 03/2001)

Computer Skills

Fortran, Pascal, Basic, SuperMongo, IRAF, Windows, Unix, Linux; minimal IDL and HTML

Employment

Research Associate (Advanced Postdoc, Ciencia 2007). Centro de Astrofísica da Universidade de Porto, 02/2008 – present

Research Fellow (Postdoc). The Australian National University, RSAA, 09/2005 – 01/2008

Postdoctoral Scholar. Caltech, Astronomy Department, 09/2003 – 08/2005

Visiting Researcher. Departamento de Astronomia, Universidade de São Paulo, 12/2002 – 03/2003

Visiting Lecturer. Universidad Nacional Mayor de San Marcos (Lima, Peru), 09/2002 – 08/2003

Postdoctoral Fellow. Departamento de Astronomia, Universidade de São Paulo, 04/2001 - 03/2002

Scholarships, Prizes and Grants

The International Astrobiology Society. ISSOL Conference, Travel Grant, 08/2008

IAU. IAU Symposium 254, Travel Grant, 06/2008

New York Times TierneyLab. Winner of the Solar-Twin Myth, 17/dec/2007

UNMSM (Peru). Prize for Scientific Production (Merito Produccion Cientifica), 20/dec/2007

ANSTO. AMRFP Travel Grants, 01/2006, 12/2006, 03/2007

American Astronomical Society. International Travel Grants, 11/2004 and 05/2005

Third World Academy of Sciences. Grant (SBIG spectrograph), 08/2003

UNMSM (Peru). Special Prize for Research, 05/2003

Concytec (Peru). Research Grant 253-2003, 07/2003 - 01/2004

Concytec (Peru). Research Grant 156-2002, 08/2002 - 03/2003

FAPESP (Brazil). Universidade de São Paulo, Postdoctoral fellowship, 04/2001 - 03/2002

IAU and USP (Brazil). X Latin American IAU Regional Meeting, Travel Grant, 09/2001

FAPESP (Brazil). Ph.D. fellowship, 03/1997 - 02/2002

CNPq (Brazil). M.Sc. fellowship, 03/1995 - 02/1997

Observing Time Allocations

ESO, VLT, Chile.

- 8-m VLT + CRIRES, oxygen in subgiants 2008-I
- 8-m VLT + CRIRES, Bulge field giants 2007-I

Gemini Observatory, Cerro Pachon, Chile.

- 8-m Gemini S. + Phoenix infrared spectrograph, CNO and F in NGC 6712, 2007-II
- 8-m Gemini S. + Phoenix infrared spectrograph, sulfur in NGC 6553, 2007-II
- 8-m Gemini S. + Phoenix infrared spectrograph, Bulge, Halo and Disk Giants, 2007-I
- 8-m Gemini S. + Phoenix infrared spectrograph, Bulge Field Giants, 2006-I
- 8-m Gemini S. + Phoenix IR spectrograph, Bulge Metal-Poor GC giants, 2005-I, 2006-I
- 8-m Gemini S. + Phoenix infrared spectrograph, Exoplanetary Helium, 2004-II (*)
- 8-m Gemini S. + Phoenix infrared spectrograph, Bulge Metal-Rich GC giants, 2002
- 8-m Gemini S. + Phoenix infrared spectrograph, LMC giants, 2002

(*) This program was not executed

Kitt Peak National Observatory, Tucson, USA

- 4-m telescope + Phoenix infrared spectrograph, Very metal-poor stars, 2001
- 2.1-m telescope + Phoenix infrared spectrograph, Metal-poor stars, 1999

Keck Observatory, Mauna Kea, USA:

- 10-m (Keck II) + NIRSPEC, Fluorine in metal-poor stars, 2008-II
- 10-m (Keck I) + HIRES, MgH isotopes in metal-rich halo dwarfs, 2007-II
- 10-m (Keck I) + HIRES, Phosphorus and Sulfur, 2007-I
- 10-m (Keck I) + HIRES, Beryllium, 2006-II
- 10-m (Keck I) + HIRES, Phosphorus and Sulfur, 2006-I
- 10-m (Keck I) + HIRES, Lithium in Halo Dwarfs, 2005-I & 2005-II
- 10-m (Keck II) + HIRES, Isotopes (MgH) in metal-poor dwarfs, 2004-II & 2005-I
- 10-m (Keck II) + NIRSPEC spectrograph, Very metal-poor stars, 2000-I & II, 2001-I & II

Magellan telescopes, Las Campanas, Chile:

6.5-m + MIKE, Biogenic elements, 2007-I

6.5-m + MIKE, MgH in very metal-poor dwarfs, 2007-II

McDonald Observatory, Texas, USA:

2.7-m + 2dcoudé, Solar twins, April and October 2007

Laboratorio Nacional de Astrofísica, Minas Gerais, Brazil.

1.6-m telescope + Coudé + infrared camera, Metal-rich bulge-like dwarfs, 2000

1.6-m telescope + Coudé + infrared camera, Metal-poor stars, 1999

Observing Experience

Keck Observatory, USA

10m + HIRES, High-resolution UV-Blue spectroscopy, 2004-I, 2005-I, 2006-II

10m + HIRES, High-resolution Blue-Yellow-Red-IR spectroscopy,
2004-II, 2005-I, 2005-II, 2006-II, 2007-I

Gemini Observatory, Chile

8m + Phoenix, High-resolution IR spectroscopy, 2006-I

Palomar Observatory, USA

5m + double spectrograph, Low-resolution Blue-Red Spectroscopy,
2003-II, 2004-I, 2004-II, 2005-I

5m + WIRC, Infrared Photometry, 2004-I & II

Kitt Peak National Observatory, Tucson, USA

4-m telescope + Phoenix infrared spectrograph, High-resolution IR Spectroscopy, 2001

2.1-m telescope + Phoenix infrared spectrograph, High-resolution IR Spectroscopy, 1999

Siding Spring Observatory, Australia

2.3-m telescope + DBS spectrograph, low-resolution Blue-Red Spectroscopy, 2006

European Southern Observatory, La Silla, Chile

1.52-m telescope + FEROS spectrograph, High-resolution Optical Spectroscopy, 2001

Laboratorio Nacional de Astrofísica, Minas Gerais, Brazil.

1.6-m telescope + Coudé + infrared camera, Medium-resolution IR Spectroscopy, 2000

1.6-m telescope + Coudé + infrared camera, Medium-resolution IR Spectroscopy, 1999

Instituto Nacional de Pesquisas Espaciais, São José dos Campos, Brazil.

Brazilian Solar Spectroscope, Decimetric waves (0.2-2.5 GHz), 1996-1997

Former Students

- Ivan Ramírez, undergraduate thesis at the Universidad Nacional Mayor de San Marcos, 2002-2003
- Katie Dodds-Eden, Summer Scholar 2005-2006, Research School of Astronomy & Astrophysics
- Alan Alves-Brito, Visiting Scholar April-September 2007, Research School of Astronomy & Astrophysics

Talks

- Astrophysics seminar, Uppsala Observatory, Uppsala, 08/2008
- Weekly seminar, CAUP, Oporto, 03/2008
- Seminar, CAAUL, Lisbon, 02/2008

- Stellar Seminar, MPA, Garching, 11/2007
- Feast of Facts, Research School of Astronomy & Astrophysics ANU, Canberra, 08/2007
- Colloquium, Research School of Astronomy & Astrophysics ANU, Canberra, 04/2007
- Ibero-Latin American Society, Canberra, 08/2006
- Convención de Astrónomos Peruanos, CONCYTEC, 06/2006
- Tea Talk, Caltech Astronomy Department, 03/2004
- Simposio Nacional de Ciencia y Tecnología Espacial para el Desarrollo Nacional, Peru, 10/2002
- Departamento de Astronomia, Universidade de São Paulo, Brazil, 07/2002
- XXXIV Escuela Latinoamericana de Física, Chosica, Peru, 06/2002
- X Latin American IAU Regional Meeting, Córdoba, Argentina, 09/2001
- XXVII Reunião Anual da Sociedade Astronômica Brasileira, Aguas de São Pedro, SP, 08/2001
- Primer Encuentro de Jóvenes Astrónomos Peruanos, Lima, Peru, 01/1998
- Divisão de Astrofísica, INPE, São José dos Campos, Brazil, 1996
- X Simposio Peruano de Física, Lambayeque, Peru, 12/1993
- About 30 popular astronomy talks, Universidad Nacional Mayor de San Marcos, 1990 - 2003

Professional Societies and Committee Service

- Referee: MNRAS, A&A, ApJ, AJ
- TAC, Siding Spring Observatories (Australia), 2006-2008
- Member, Scientific organizing committee of the XXXIV Escuela Latinoamericana de Física, 2002
- Student-member, Administrative Council of the Instituto de Astronomia, Geofísica y Ciencias Atmosféricas da Universidade de São Paulo, 1998
- American Astronomical Society, 2004 – present
- Brazilian Astronomical Society, 1996 – 2004
- Coordinator of the Astronomy Group SPACE, Universidad Nacional de San Marcos, 1992-1994

LIST OF PUBLICATIONS

- 48 publications: 35 papers in international refereed journals and 13 in conference proceedings.
- h-index: 17 (ADS)
- 704 citations (ADS)

Refereed Journal Publications

1. Another forbidden solar oxygen abundance: the [O I] 5577 Å line. **Melendez, J.** & Asplund, M. 2008, A&A, in press (arXiv0808.2796)

2. The stellar content of the Hamburg/ESO survey. V. The metallicity distribution function of the Galactic halo. Schoerck, T.; Christlieb, N.; Cohen, J. G.; Beers, T. C.; Shectman, S.; Thompson, I.; McWilliam, A.; Bessell, M. S.; Norris, J. E.; **Melendez, J.**; et al. 2009, *A&A*, submitted (arXiv0809.1172)
3. Chemical abundances in giants stars of the tidally disrupted globular cluster NGC 6712 from high-resolution infrared spectroscopy. Yong, David; **Melendez, J.**; Cunha, K.; Karakas, A. I.; Norris, J. E.; Smith, V. V. 2008, *ApJ*, in press (arXiv0807.4558)
4. Chemical Similarities between Galactic bulge and local thick disk red giant stars. **J. Meléndez**, M. Asplund, A. Alves-Brito, Cunha, K., B. Barbuy, M.S. Bessell, C. Chiappini, K.C. Freeman, I. Ramirez, V. V. Smith & D. Yong, 2008, *A&A Letters*, 484, 21
5. New Extremely Metal-Poor Stars in the Galactic Halo. J. G. Cohen, N. Christlieb, A. McWilliam, S. Shectman, I. Thompson, **J. Meléndez**, L. Wisotzki, D. Reimers 2008, *ApJ*, 672, 320
6. A Solar Twin with a Low Lithium Abundance. **J. Meléndez** & I. Ramirez, 2007, *ApJ Letters*, 669, 89
7. Precise Radial Velocities. III. Spectroscopic Stellar Parameters. S. Hekker & **J. Meléndez** 2007, *A&A*, 475, 1003
8. A New Type of Extremely Metal-Poor Star. J. G. Cohen, A. McWilliam, N. Christlieb, S. Shectman, I. Thompson, **J. Meléndez**, L. Wisotzki, D. Reimers 2007, *ApJ Letters*, 659, L161
9. Magnesium Isotopes in Metal-Poor Dwarfs, the Rise of AGB Stars and the Formation Timescale of the Galactic Halo. **J. Meléndez** & J. G. Cohen 2007, *ApJ Letters*, 659, L25
10. HD 98618: A Star Closely Resembling our Sun. **J. Meléndez**, Dodds-Eden, Katie; Robles, Jose A 2006, *ApJ Letters*, 641, L133
11. Permitted Oxygen Abundances and the Temperature Scale of Metal-Poor Turn-Off Stars. **J. Meléndez**, N. G. Shchukina, I. E. Vasiljeva & I. Ramírez 2006, *ApJ*, 642, 1082
12. VLT-UVES abundance analysis of 4 giants in NGC 6553. A. Alves-Brito et al. 2006, *A&A*, 460, 269
13. Carbon Stars in the Hamburg/ESO Survey: Abundances. Cohen et al. 2006, *AJ*, 132, 137
14. The Frequency of Carbon Stars among Extremely Metal Poor Stars. Cohen et al. 2005, *ApJ*, 633, L109
15. A library of high resolution synthetic stellar spectra from 300nm to 1.8 micron with solar and alpha-enhanced composition. P. Coelho, B. Barbuy, **J. Meléndez**, R. Schiavon, B. Castilho 2005, *A&A*, 443, 735
16. The Effective Temperature Scale of FGK Stars. I. Determination of Temperatures and Angular Diameters with the Infrared Flux Method, I. Ramírez & **J. Meléndez** 2005, *ApJ*, 626, 446
17. The Effective Temperature Scale of FGK Stars. II. T_{eff} /color/[Fe/H] calibrations, I. Ramírez & **J. Meléndez** 2005, *ApJ*, 626, 465

18. Abundances in a Large Sample of Stars in M3 and M13, J. G. Cohen & **J. Meléndez**, 2005, *AJ*, 129, 303
19. Outer Versus Inner Halo Globular Clusters: NGC 7492 Abundances, J. G. Cohen & **J. Meléndez**, 2005, *AJ*, 129, 1607
20. Reappraising the Spite Lithium Plateau: Extremely Thin and Marginally Consistent with WMAP Data, **J. Meléndez** & I. Ramírez, 2004, *ApJ*, 615, L33
21. A Low Solar Oxygen Abundance from the First-Overtone OH Lines, **J. Meléndez**, 2004, *ApJ*, 615, 1042
22. Abundances in Very Metal Poor Dwarf Stars, J. Cohen, ... & **J. Meléndez** (10 authors) 2004, *ApJ*, 612, 1107
23. Cooler and bigger than thought? Planetary host stellar parameters from the InfraRed Flux Method, I. Ramírez & **J. Meléndez** 2004, *ApJ*, 609, 417
24. IRFM T_{eff} Calibrations for Cluster and Field Giants in the Vilnius, Geneva, RI(c) and DDO Photometric Systems, I. Ramírez & **J. Meléndez** 2004, *A&A*, 417, 301
25. Gemini-Phoenix infrared high-resolution abundance analysis of five giants in the bulge globular cluster NGC 6553, **J. Meléndez**, B. Barbuy, E. Bica, et al. 2003, *A&A*, 411, 417
26. Oxygen Abundance in the Template Halo Giant HD 122563, B. Barbuy, **J. Meléndez**, M. Spite, et al. 2003, *ApJ*, 588, 1072
27. IRFM Temperature Calibrations for (Dwarfs in) the Vilnius, Geneva, RI(c) and DDO Photometric Systems, **J. Meléndez** & I. Ramírez 2003, *A&A*, 398, 705
28. Keck NIRSPEC infrared OH lines: Oxygen Abundances in Metal-Poor Stars down to $[\text{Fe}/\text{H}] = -2.9$, **J. Meléndez** & B. Barbuy 2002, *ApJ*, 575, 474-483
29. Chemical Abundances in Twelve Red Giants of the Large Magellanic Cloud from High-Resolution Infrared Spectroscopy, V. V. Smith, K. H. Hinkle, K. Cunha, B. Plez, D. L. Lambert, C. Pilachowski, B. Barbuy, **J. Meléndez**, et al., *AJ*, 124, 3241-3254
30. Oxygen Abundances in Metal-Poor Stars ($-2.2 < [\text{Fe}/\text{H}] < -0.8$) from Infrared OH lines, **J. Meléndez**, B. Barbuy & F. Spite 2001a, *ApJ*, 556, 858-871
31. Oxygen Abundances in Metal-Poor Stars from IR OH lines, **J. Meléndez**, B. Barbuy & F. Spite 2001b, *New Astronomy Reviews*, 45, 551-553
32. The acceleration region of energetic electrons associated with decimetric type III and X-ray bursts, F.C.R. Fernandes, H. Sawant, **J. L. Meléndez**, A. Benz & S. R. Kane 2000, *Adv. Space Research*, 25, 1813-1816
33. Mn I Hyperfine Structure in the Near Infrared, **J. Meléndez**, 1999, *Monthly Notices of the Royal Astronomical Society*, 307, 197-202
34. Oscillator Strengths and Damping Constants for Atomic Lines in the *J* and *H* bands, **J. Meléndez** & B. Barbuy. 1999, *ApJS*, 124, 527-546

35. Statistical analysis of high frequency decimetric type III bursts, **J. L. Meléndez**, H. Sawant, F.C.R. Fernandes & A. Benz. 1999, *Solar Physics*, 187, 77-88

Papers in Conference Proceedings

1. Primordial and Pre-Galactic Origins of the Lithium Isotopes. Asplund, M. & Meléndez, J. 2008, *First Stars III*, Santa Fe, 2007 July 16-20, AIPC 990, 342
2. Oxygen Abundances in Metal-Poor Stars from [OI], OI and IR OH lines, B. Barbuy & **J. Meléndez** 2008, in *Precision Spectroscopy in Astrophysics*, N. C. Santos, L. Pasquini, A.C.M. Correia & M. Romaniello (eds), Proceedings of the ESO/Lisbon/Aveiro Conference held in Aveiro, Portugal, 11-15 September 2006, pp 47-50
3. Mg Isotopes in Halo Stars, **J. Meléndez** & J. G. Cohen, 2008, *First Stars III*, Santa Fe, 2007 July 16-20, AIPC 990, 181
4. Abundances in Bulge, Disk and Halo Stars, **J. Meléndez** et al., 2006, *Cool Stars 14*, Pasadena, Nov 6-10, 2006, Gerard van Belle (ed), ASP, in press
5. The temperature scale of metal-poor dwarfs: lithium and oxygen abundances, **J. Meléndez**, N. G. Shchukina, I. Ramírez & I. E. Vasiljeva, 2005, *From Lithium to Uranium: Elemental Tracers of Early Cosmic Evolution*, IAU Symp. 228, Paris, May 23-27, 2005, Hill, V.; François, P.; Primas, F. (eds), Cambridge University Press, pp.265-266
6. The chemical composition of the very metal-poor carbon dwarf G77-61, B. Plez, J. G. Cohen, & **J. Meléndez**, 2005, *From Lithium to Uranium: Elemental Tracers of Early Cosmic Evolution*, IAU Symp. 228, Paris, May 23-27, 2005, Hill, V.; François, P.; Primas, F. (eds), Cambridge University Press, pp.267-268
7. The Frequency of Carbon Rich Stars Among Extremely Metal Poor Stars, J. G. Cohen et al., 2005, *From Lithium to Uranium: Elemental Tracers of Early Cosmic Evolution*, IAU Symp. 228, Paris, May 23-27, 2005, Hill, V.; François, P.; Primas, F. (eds), Cambridge University Press, pp.213-218
8. Spectroscopic Equilibrium of Iron in Metal-Rich Dwarfs, **J. Meléndez** & I. Ramírez, 2004, *Cosmic Abundances as Records of Stellar Evolution and Nucleosynthesis*, A F. N. Bash & T. G. Barnes (eds), ASPCS, 336, 343
9. Abundance Analysis of the Bulge Globular Clusters NGC 6553 and NGC 6528, B. Barbuy, **J. Meléndez**, S. Ortolani et al. 2004, *MmSAI*, 75, 398
10. Oxygen Abundances in Metal-Poor Stars, B. Barbuy & **J. Meléndez** 2003, in *CNO in the Universe*, C. Charbonnel, D. Schaerer & G. Meynet (eds), ASP Conference Series, 304, 88
11. Keck NIRSPEC IR OH lines: Oxygen Abundances in Metal-Poor Stars down to $[Fe/H] = -2.9$, B. Barbuy & **J. Meléndez** 2003, in *Modeling of stellar atmospheres*, Piskunov, N., Weiss W. W., Gray D. F.(eds), IAU Symp. 210, E42

12. Infrared Boron lines in Stellar Spectra, **J. Meléndez**, B. V. Castilho & B. Barbuy 2000, in *The Light Elements and their Evolution*, IAU Symposium 198, Natal, 22-26/11/1999. L. da Silva, M. Spite, J.R. de Medeiros (eds.), IAU Symp. 198, 487-488
13. Spectroscopy in the Infrared, **J. Meléndez** & B. Barbuy 1998, *Proceedings of the Workshop Science with Gemini*, Florianopolis, 1997. B. Barbuy, E. Lapasset, R. Baptista, R. Cid. Fernandes (eds.), pp. 208-210

Abstracts in Conferences

1. Spectroscopic Survey of Solar Analogs in the Northern Hemisphere, **J. Meléndez** & I. Ramírez, AAS 211th Meeting, Austin, USA, Jan 2008 (AAS Meeting #211, #103.05)
2. Abundances in Bulge, Disk and Halo Stars, **J. Meléndez** et al., 2006, *Cool Stars 14*, Pasadena, Nov 6-10, 2006
3. The temperature scale of metal-poor dwarfs: lithium and oxygen abundances, **J. Meléndez**, N. G. Shchukina, I. Ramírez & I. E. Vasiljeva, 2005, IAU Symp. 228, Paris, May 23-27, 2005
4. The chemical composition of the very metal-poor carbon dwarf G77-61, B. Plez, J. G. Cohen, & **J. Meléndez**, 2005, IAU Symp. 228, Paris, May 23-27, 2005
5. The Frequency of Carbon Rich Stars Among Extremely Metal Poor Stars, J. G. Cohen et al., 2005, IAU Symp. 228, Paris, May 23-27, 2005
6. A high primordial Li abundance in Metal-Poor Stars, **J. Meléndez** & I. Ramírez, AAS 205th Meeting, San Diego, USA, Jan/9-13/2005
7. The effective temperature scale, I. Ramírez & **J. Meléndez**, II Congreso Internacional de Científicos Peruanos, Lima, Perú, Jan/2-5/2004
8. Estrellas Gigantes con Baja Abundancia de Hierro, V. Navarrete, **J. Meléndez** & R. Carlos, XIV Simposio Peruano de Física, Lima, Perú, Aug/11-16/2003
9. Buscando Estrellas Enanas Frías de Población II, J. F. Valle, **J. Meléndez** & R. Carlos, XIV Simposio Peruano de Física, Lima, Perú, Aug/11-16/2003
10. Planetas Extrasolares, J. Gonzáles, **J. Meléndez** & R. Carlos, XIV Simposio Peruano de Física, Lima, Perú, Aug/11-16/2003
11. Compilação de Dados Atômicos e Moleculares do UV ao IV Próximo para Uso em Síntese Espectral, P. Coelho, B. Barbuy, **J. Meléndez** et al. XXIX Reunião Anual da Sociedade Astronômica Brasileira (SAB), São Pedro, SP, Aug/3-7/2003
12. Abundance Analysis of the Bulge Globular Clusters NGC 6553 and NGC 6528, B. Barbuy, **J. Meléndez**, S. Ortolani et al., JD4: *Astrophysical impact of abundances in Globular Cluster stars*, XXV meeting of the IAU, Sydney, Australia, July/16-17/2003
13. Oxygen Abundances in Metal-Poor Stars, B. Barbuy & **J. Meléndez** 2002, CNO in the Universe, St-Luc, Switzerland, Sept/10-14/2002

14. Keck NIRSPEC IR OH lines: Oxygen Abundances in Metal-Poor Stars down to $[Fe/H] = -2.9$, B. Barbuy & **J. Meléndez**, Modelling of Stellar Atmospheres, IAU Symposium No. 210, Uppsala, Sweden, Jun/17 – 21/2002
15. Infrared Spectroscopy: Oxygen Abundances in Metal-poor Stars, **J. Meléndez** & B. Barbuy, X Latin American IAU Regional Meeting, Córdoba, Argentina, 09/2001.
16. Abundâncias de Oxigênio em Estrelas Pobres em Metais, **J. Meléndez** & B. Barbuy. XXVII Reunião Anual da Sociedade Astronômica Brasileira (SAB), Aguas de São Pedro, SP, 08/5-9/2001
17. Oxygen Abundances in Metal-poor Stars from IR OH Lines, **J. Meléndez**, B. Barbuy & François Spite, JD8: *Oxygen Abundances in Old Stars and Implications to Nucleosynthesis and Cosmology*, XXIV meeting of the IAU, Manchester, UK, 7-18/08/2000.
18. Infrared Boron lines in Stellar Spectra, **J. Meléndez**, B. V. Castilho & B. Barbuy, The Light Elements and their Evolution, IAU Symposium 198, Natal, Brazil, 22-26/11/1999.
19. Espectros de Gigantes e Supergigantes Frias no Infravermelho, **J. Meléndez**, B. Barbuy & R. Schiavon. XXV Reunião Anual da SAB, Caxambú, MG, 08/1-5/1999
20. Atomic and Molecular Spectroscopy in the Infrared, **J. Meléndez** & B. Barbuy. IX Latin American Regional IAU Meeting, Tonantzintla, Mexico, 11/9-13/1998
21. Estrutura Isotópica e Hiperfina no Infravermelho, **J. Meléndez** & B. Barbuy. XXIV Reunião Anual da SAB, Barra Bonita, SP, 08/2-6/1998
22. Spectroscopy in the Infrared, **J. Meléndez** & B. Barbuy. Workshop *Science with Gemini*, Florianopolis, Brazil, 12/1997
23. Decimetric type III radio bursts with high starting frequencies and the associated solar flares hard X-ray emission, F. Fernandes; H.S. Sawant; **J. Meléndez**; et al. *28th Solar Physics Division of the American Astronomical Society Annual Meeting*, Montana, USA., 06/27-07/01/1997
24. Rádio-diagnostico da região de aceleração nos *flares* solares, **J. Meléndez**, F. Fernandes, H. Sawant & A. Benz. XXIII Reunião Anual da SAB, Angra dos Reis, RJ, 08/3-7/1997.
25. Explosões solares decimétricas tipo III com altas frequências de início associadas com emissões em raios-X duros. F. Fernandes; H. Sawant; **J. Meléndez**; et al. XXIII Reunião Anual da SAB, Angra dos Reis, RJ, 3-7/08/1997.
26. Integração e observações iniciais do espectrógrafo solar decimétrico de banda larga. H. Sawant; C. Faria; **J. Meléndez**; et al. XXIII Reunião Anual da SAB, Angra dos Reis, RJ, 08/3-7/1997.
27. Altura de injeção de elétrons energéticos na cromosfera solar. F. Fernandes; **J. Meléndez**; H. S. Sawant; S. Kane. *49a. Reunião Anual da Sociedade Brasileira para o Progresso da Ciência (SBPC)*, UFMG, Belo Horizonte, MG, 07/13-18/1997.
28. Aquisição e tratamento preliminar de dados de observações solares decimétricas. C. Faria; **J. Meléndez**; C. Moron; F. Fernandes; H. Sawant. *49a. Reunião Anual da SBPC*, UFMG, Belo Horizonte, MG, 07/13-18/1997.

29. Digital High Sensitivity High Resolution Decimetric Wide Band Solar Radio Spectroscopy, H. Sawant; J. Sobral; F. Fernandes; N. Srivastava; J. Cecatto; E. Alonso & **J. Meléndez**. *4th COLAGE, Latin-American Conference in Space Geophysics*, Tucumán, Argentina, 04/22-26/1996
30. Decimetric Wide Band Digital Solar Radio Spectroscopy, H. Sawant; J. Sobral; F. Fernandes; N. Srivastava; J. Cecatto; **J. Meléndez** & E. Alonso. *31st COSPAR Scientific Assembly*, Birmingham, UK, 07/14-21/1996
31. Correlação entre explosões solares decimétricas e raios-X. **J. Meléndez**; F. Fernandes; H. Sawant & A. Benz. XXII Reunião Anual da SAB, São Lourenço, MG, 08/05-09/1996
32. Espectrógrafo Digital Solar Decimétrico (200-2500) MHz. E. Alonso; F. Fernandes; **J. Meléndez** et al. XXII Reunião Anual da SAB, São Lourenço, MG, 08/05-09/1996
33. Análise das explosões solares observadas em rádio associadas com raios-X. **J. Meléndez**; F. Fernandes & H. Sawant. *48a. Reunião Anual da SBPC*, São Paulo, SP, 07/7-12/1996
34. Explosões Tipo III-RS acima de 1000 MHz. **J. Meléndez**; W. R. Day; F. Fernandes & H. Sawant. XXI Reunião Anual da SAB, Caxambú, MG, 07/31-08/04/1995
35. Metodologia de Tratamento de Dados do Espectrógrafo Decimétrico de Alta Resolução Temporal e Espectral. E. Alonso; J. Cecatto; W. Day; **J. Meléndez**; et al. XXI Reunião Anual da SAB, Caxambú, MG, 07/31-08/04/1995
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