

## Um Laboratório no Espelho

*F. Caruso*

Centro Brasileiro de Pesquisas Físicas - CBPF  
Rua Dr. Xavier Sigaud, 150  
22290-180 - Rio de Janeiro-RJ, Brasil

### APRESENTAÇÃO

Um Laboratório de pesquisas é, sobretudo, o conjunto de pesquisadores que o compõe, cuja harmonia reside, na verdade, muito mais na diversidade do potencial criativo de seus integrantes, na pluralidade e liberdade de pensamento expressas em suas publicações, do que na mera divisão formal de linhas de pesquisa.

Foi a partir desta convicção pessoal que resolvi esboçar o perfil do LAFEX/CBPF, a partir do registro, em um único documento, de *toda* a produção técnico-científica dos 27 pesquisadores e engenheiros que integravam o quadro permanente do Laboratório em 1996, a saber: Adolfo Pedro de Carvalho Malbouisson, Alberto Correa dos Reis, Alberto Franco de Sá Santoro, Arthur Kós Antunes Maciel, Bartolomeu Donatila Figueiredo, Carla Osthoff de Barros, Edgard Correa de Oliveira, Francisco Caruso, Gilvan Augusto Alves, Hélio da Motta Filho, Ignácio de Bediaga y Hickman, Ívano Damião Soares, João Carlos Costa dos Anjos, José Martins Salim, Jussara Marques de Miranda, Luiz Alberto Rezende de Oliveira, Maria Elena Pol, Mariano Sumrell de Miranda, Mário Novello, Mario Vaz da Silva Filho, Moacyr Henrique Gomes e Souza, Nami Fux Svaiter, Nelson Pinto Neto, Renato Portugal, Ronald Cintra Shellard e Sérgio Joffily. A todos agradeço a paciente colaboração no trabalho de revisão das referências; em especial, gostaria também de agradecer à Simone Santana Franco pelo longo e dedicado trabalho de digitação.

As publicações, incluindo as teses de Mestrado e Doutorado, estão apresentadas em ordem cronológica e referem-se ao período de 1969–1996. Para facilitar a consulta, a bibliografia foi separada em grupos de áreas afins.

A partir desse espelho, em que se vê refletida toda a produção de um grupo, que há alguns anos trabalha junto, espero que o olhar livre do leitor lhe permita buscar uma imagem mais nítida do LAFEX.

Francisco Caruso  
Chefe do LAFEX

# 1 Fenomenologia, Teoria de Campos e Física Nuclear

## 1.1 Artigos Publicados em Revistas Especializadas

1. "The role of the mass in the theory of fermions" - M. Novello & J. Leite Lopes - *Rev. Mex. de Física*, **XVIII**, p.425, (1969).
2. "Dirac's equations in a Weyl space" - M. Novello - *Nuovo Cimento*, **164A**, 654, (1969).
3. "Gauge transformations and generalized multipole moment operators" - J. Leite Lopes & M. Novello - *Revista Mexicana de Física*, **19**, 229-239, (1970).
4. "Phenomenologie - Poles de Regge - Dualité" - J. Anjos, A. Santoro & M. Souza - *Rapport de Stage - CEN/Saclay*, França, (1970).
5. "Bound States for Spin 1/2 Particles in General Relativity" - A. Santoro, C. G. Oliveira & N. Arbex - *Acad. Bras. de Ciências* **43**,(1) 45, (1971).
6. "Dynamical Model for the ABC Effect" - A. Santoro, J. Anjos & D. Levy - *Nucl. Phys.* **B67**, 37, (1973).
7. "A Tight Connection Between the High Energy  $t$ -Behaviour and the Low Energy Amplitudes in Pion Scattering" - M. Souza - *Nucl. Phys.*, **B66**, 305, (1973).
8. "Poles of the S-Matrix for a Complex Potential", S. Joffily, *Nucl. Phys.* **A 215**, 301-313 (1973).
9. "On the Scattering of Heavy Ions at Low Energy in the Framework of Molecular Orbitals", F. Becker, S. Joffily, C. Beccaria & G. Baron, *Nucl. Phys.* **A 221**, 474-508 (1974).
10. "Secondary Contributions in Diffractive Dissociation; The Q Cross-over Puzzle" - A. Santoro, G. Cohen-Tannoudji & M. Souza - *Nucl. Phys.*, **B95**, 445, (1975).
11. "A Double Nucleon Exchange Model for the ABC Production in  $p + n \rightarrow d + (\pi\pi)^0$  - Reaction" - A. Santoro, J. Anjos & D. Levy - *Nuovo Cim.*, **33A**, 23, (1976).
12. "The three-Component Dual Deck-Model, Factorization and Double Diffractive Dissociation" - G. Cohen-Tannoudji, D. Levy & M. Souza - *Nucl. Phys.*, **B129**, 286, (1977).
13. "Deck-Model and Mass-Slope Correlation" - A. Santoro, F. Hayot, A. Morel & M. Souza - *Lett. Nuovo Cim.*, **18**, 185, (1977).
14. "Duality and Mass-Slope Correlation in Diffractive Dissociation" - A. Santoro, G. Cohen-Tannoudji & M. Souza - *Nucl. Phys.*, **B125**, 445, (1977).
15. "Dynamical Symmetry Breakdown at the Two Loop Level and Beyond" - R. C. Shellard & J. M. Cornwall - *Phys. Rev.*, **D18**, 1216 (1978).

16. "Double Regge Model for non Diffractive  $A_1$  Production - A. Santoro, J. Anjos, A. Endler & F. Simão - *Nuovo Cim.*, **57A**, 70, (1980).
17. "Path Integrals for Arbitrary Canonical Transformations" - Luiz Alberto R. de Oliveira, T. Kodama & F. C. Santos - *Nuovo Cim.*, **58B**, no. 2, 251-256, (1980).
18. "Backward Elastic  $p + d$  Scattering in the Resonance Energy Region" - A. Santoro, J. Anjos, F. Simão & D. Levy - *Nucl. Phys.* **A356**, 383, (1981).
19. "Application of the three Component Deck Model to the Lambda-Kaon in  $pp$  Reaction" - A. Santoro, M. A. Monteiro & M. Souza - *Zeitschrift für Physik*, **C7**, 137, (1981).
20. "Hadronic Production of Heavy Quark-Antiquark Bound States" - A. Santoro, C. Escobar, A. Malbouisson, R. C. Shellard & M. Souza - *Zeitschrift für Physik*, **29**, 461, (1981).
21. "Heavy Quark Fusion and Recent Data on Charm Muon-Production" - A. Santoro, C. Escobar, A. Malbouisson & M. Souza - *Lett. Nuovo Cim.* **31**, 638, (1981).
22. "Search for Diquark Substructures in Charmed Baryons Spectroscopy" - A. Santoro, I. Bediaga & E. Predazzi - *Phys. Lett.*, **105B**, 71, (1981).
23. "Theoretical and Phenomenological Problems Concerning  $J^p = 1^+$  -Mesons" - A. Santoro, I. Bediaga & J. Pires - *Rev. Bras. de Fís.*, **11**, 997, (1981).
24. "Is Parity Violation a Cosmological Evolution Effect?" - A. Santoro, M. Novello & H. Heintzmann - *Phys. Lett.*, **A89**, 266, (1982).
25. "Production Cross Sections from Phenomenological Constraints" - A. Santoro, J. Anjos, M. Souza & E. Predazzi - *Nuovo Cim.*, **68A**, 191, (1982).
26. "Monte Carlo study of the phase diagram for the two dimensional Z(4) model" - G. M. Carneiro, M. E. Pol & N. Zagury - *Phys. Lett.*, **92A**, 258 (1982).
27. "The Gauge Hierarchy Problem" - R. C. Shellard & A. Natale - *J. Phys. Nucl. Phys.*, **G8**, 635 (1982).
28. " $pp$  Production Cross-Sections and Constraint Method" - A. Santoro, J. Anjos, M. Souza & E. Predazzi - *Lett. Nuovo Cim.*, **36**, 491, (1983).
29. "Diffractive Dissociation in  $pp \rightarrow \Delta^{++}\pi^- p$ . I- Slope-Mass-Cos( $\theta$ )G.J. Correlation" - A. Santoro & A. Antunes - *Rev. Bras. Fís.*, **13**, 415, (1983).
30. "Diffractive Dissociation in  $pp \rightarrow \Delta^{++}\pi^- p$ , II- Slope Mass Partial Wave Correlation" - A. Santoro, A. Antunes & M. Souza - *Rev. Bras. Fís.*, **13**, 601, (1983).
31. "Comment on Scattering with Absorptive Interactions", S. Joffily, *Phys. Rev.* **C27**, 1830-31 (1983).

32. "Pseudoscalar Meson and Scalar Diquark Decay Constants" - A. Santoro, I. Bediaga, E. Predazzi, M. Souza & J. Tiomno - *Nuovo Cim.*, **81A**, 485, (1984).
33. "Glueballs in  $\pi^- p \rightarrow \phi\phi n$ " - A.Santoro, F. Caruso, C. Escobar & M. Souza - *Phys. Rev.* **D30**, 69, (1984).
34. "Systematics of the Slope-Mass-Correlations in Diffractive Dissociation Reactions" - A. Santoro, A. Antunes & M. Souza - *Rev. Bras. Fís.*, **14**, 397, (1984).
35. "Phase diagram of the Z(4) model" - V. L. V. Baltar, G. M. Carneiro, M. E. Pol & N. Zagury - *J. Phys.*, **17A**, 2119 (1984).
36. "Migdal-Kadanoff renormalization group for the Z(5) model" - V. L. V. Baltar, G. M. Carneiro, M. E. Pol, N. Zagury - *Rev. Bras. Física*, **14**, 48 (1984).
37. "Deuteron Diffractive Dissociation" - A. Antunes & F. Caruso - *Rev. Bras. Fís.*, **14** (2), 143-162, (1984).
38. "A Phenomenological Approach to Angular Momentum Transfer in Deep Inelastic heavy Ion Collisions" - V. C. Barbosa, P. C. Soares, E. C. de Oliveira & L. C. Gomes - *Revista Brasileira de Física*, **14**, 3 (1984).
39. "Angular Momentum Transfer in Deep Inelastic Heavy Ion Collisions" - V.C. Barbosa, P. C. Soares, E. C. de Oliveira & L. C. Gomes - *Revista Brasileira de Física*, **15**, 3 (1984).
40. "Numerical Simulation of  $\lambda\phi_4^4$ " - R. C. Shellard, M. G. do Amaral & C. A. Aragão de Carvalho - *Rev. Bras. de Fís.*, **14**, 24-42 (1984).
41. "Vacuum Decay in a Soluble Model" - R. C. Shellard, A. F. de Camargo & G. C. Marques - *Phys. Rev.* **D29**, 1147 (1984).
42. "Angular Momentum Transfer in Deep Inelastic Heavy Ion Collisions" - V. C. Barbosa, P. C. Soares, E. C. de Oliveira & L. C. Gomes - *Revista Brasileira de Física*, **15**, 3 (1984).
43. "A Phenomenological Approach to Angular Momentum Transfer in Deep Inelastic Heavy Ion Collisions" - V. C. Barbosa, P. C. Soares, E. C. de Oliveira & L. C. Gomes - *Revista Brasileira de Física*, **14**, 3, (1984).
44. "Variational Coupling Between  $q$ -number and  $c$  number Dynamics", C. Marcio do Amaral & S. Joffily - *Revista Brasileira de Física*, **14**, 477, (1984).
45. "Vector Meson and Axial-Vector Diquark Decay Constants" - A. Santoro, I. Bediaga, E. Predazzi, M. Souza & J. Tiomno - *Lett. Nuovo Cim.*, **42**, 54 (1985).
46. " $\Lambda_c^+$  Lifetime in a Quark-Diquark Scheme" - A. Santoro, I. Bediaga, E. Predazzi, M. Souza & J. Tiomno - *Lett. Nuovo Cim.*, **42**, 92 (1985).

47. “Monte Carlo study of the Z(5) model” - V. L. V. Baltar, G. M. Carneiro, M. E. Pol & N. Zagury - *J. Phys.*, **18A**, 2017 (1985).
48. “ $\lambda\phi_2^4$  at finite temperature” - M. G. Amaral, C. A. Aragão de Carvalho, M. E. Pol & R. C. Shellard - *Phys. Lett.*, **165B**, 117 (1985).
49. “Reaction  $\gamma p \rightarrow F^+ F^- p$  as a possible test for  $0^{++}$  Glueball State” - A. C. B. Antunes & F. Caruso - *Physical Review*, **D 31** (7), 1743-1745 (1985).
50. “On the Z(4) spin model” - V. L. V. Baltar & M. E. Pol - *J. Phys.*, **19A**, 743 (1986).
51. “A Monte Carlo study of finite temperature  $\lambda\phi_{2,3}^4$ ” - M. G. Amaral, C. A. Aragão de Carvalho, M. E. Pol & R. C. Shellard - *Zeit. Phys.*, **C 32**, 609 (1986).
52. “Sulla Origine Della Condizione di Quantizzazione Delle Cariche Dei Dioni” - F. Caruso - *Giornale di Fisica*, **XXVII** (2), 149-152 (1986).
53. “Gluon and  $q\bar{q}$  Mixing in the  $\eta - \eta' - G$  ( $\iota(1440)$ ) System” - F. Caruso, A. C. B. Antunes, E. Predazzi & J. Tiomno - *Zeitschrift für Physik C – Particles & Fields*, **30** (3), 493-500 (1986).
54. “The Process  $F^\pm \rightarrow P\pi^\pm$  as a mean of Determining the Strange Content of  $\eta'(\iota)$  and the Nature of the  $\iota$  Meson” - F. Caruso, I. Bediaga & E. Predazzi - *Nuovo Cimento*, **91A** (3), 306-316 (1986).
55. “On the Dirac Monopole Mass Scale” - F. Caruso - *Revista Brasileira de Física*, **16** (2), 188-193 (1986).
56. “The Continuum Limit of  $\lambda\phi_4^4$  in the Broken Phase” - R. C. Shellard & M. G. do Amaral - *Phys. Lett.*, **B171**, 285-288 (1986).
57. “Resolution of the  $95Zr$  ground state into a doublet” - E. Frota-Pessoa & S. Joffily - *Nuovo Cim.* **91A**, 370 (1986).
58. “States in  $94Zr$  from  $94Zr(d, d')94Zr^*$  at 15.5 MeV” - E. Frota-Pessoa & S. Joffily - *Nuovo Cim.* **96A**, 347 (1986).
59. “Quark and Gluon Content of Neutral Tensor Mesons  $f - f' - \theta$ ” - F. Caruso & E. Predazzi - *Zeitschrift für Physik C – Particles & Fields*, **33** (4), 569-578 (1987).
60. “Is There Flavour Independence in Tensor Glueball Decay?” - F. Caruso & E. Predazzi - *Europhysics Letters*, **3** (6), 677-680 (1987).
61. “A new hadronization model: the case of implicit charm decay” - J. L. Basdevant, I. Bediaga & E. Predazzi - *Nucl. Phys.*, **294B**, 1054, (1987).
62. “Phase diagram of the Abelian Higgs model” - M. G. Amaral, M. E. Pol & R. C. Shellard - *J. Phys.* **14G**, 1013 (1988).
63. “The Decay  $\eta_c \rightarrow p\bar{p}$  in a Quark-Diquark Scheme” - F. Caruso, M. Anselmino, S. Forte & B. Pire - *Physical Review*, **D 38** (11), 3516-3521 (1988).

64. "Thermal Expansion and Critical Temperature in a Geometric Representation of Quark Deconfinement" - I. Bediaga, M. Gasperini & E. Predazzi - *Phys. Rev.*, **D38**, 1626, (1988).
65. "Predictions over the Decays of  $B$  Mesons" - I. Bediaga, A. Correa & E. Predazzi - *Phys. Lett.*, **215B**, 166, (1988).
66. "Descriptions of Geometric Hadronization in Curved Space-Time" - I. Bediaga, M. Novello, M. Gasperini & E. Predazzi - *Modern Physics Letters*, **4A**, 169, (1988).
67. "A comparasion of the Gaussian Approximation and Lagevin's Simulation in Deep Inelastic Heavy Ion Collisions" - M. P. Pato, E. C. de Oliveira & L. C. Gomes - *Z. Phys. A*, **329**, 189-193, (1988).
68. "A comparasion of the Gaussian Approximation and Lagevin's Simulation in Deep Inelastic Heavy Ion Collisions" - M. P. Pato, E. C. de Oliveira & L. C. Gomes - *Zeitschrift für Physik A*, **329**, 189-193 (1988).
69. "Vortices in the superconducting transition of the  $2 + 1$  Abelian Higgs model" - M. G. Amaral & M. E. Pol - *Zeit. Phys.*, **C 44**, 515 (1989).
70. "Spin Effects and Vector Diquarks:  $\eta_c$  Decay Into Baryon-Antibaryon" - F. Caruso, M. Anselmino, S. Forte & B. Pire - *Particles and Fields Series*, **37**, 838-846 (1989).
71. "Two Photon Annihilation into Proton-Antiproton in a Quark-Diquark Scheme" - F. Caruso, M. Anselmino, P. Kroll & W. Schweiger - *International Journal of Modern Physics*, **A 4** (19), 5213-5234 (1989).
72. "Equivalence of the propagator of Quasi-statical solutions and the Quantum Harmonic Oscillator" - A. P. C. Malbouisson, C. A. Bonato & M. T. Thomaz - *Phys. Rev.*, **A39**, 2225, (1989).
73. "Some Results form a Mellin Transform Technique for the Heat Kernel Expansion" - A. P. C. Malbouisson, F. R. A. Simão & A. Ferraz de Camargo Filho - *J. Math. Phys.*, **30** (6), 1226, (1989).
74. "A Mellin Transform Technique for the Heat Kernel Expansion" - A. P. C. Malbouisson, F. R. A. Simão & M. A. R. Monteiro - *J. Math. Phys.*, **30** (9), 2016, (1989).
75. "Separable Coordinates and Particles Creation III: Accelerating Observers, Rindler's and Milne Vacuum" - I. Costa & N. F. Svaiter - *Rev. Bras. Física*, **19**, 271, 1989.
76. "The Phase Transition Diagram of the  $\phi_3^6$  Theory" - R. C. Shellard & M. G. do Amaral - *Revista Brasileira de Física*, **19**, 190 (1989).
77. "Hadron Production in a Fireball Radiation Model for  $e^-e^+$  Collisions" - I. Bediaga, S. Joffily & E. Predazzi - *Zeitschrift für Physik*, **46C**, 169, (1990).

78. "The Bounce and its Negative Eigenvalue – A New Approach" - A. P. C. Malbouisson, C. A. Bonato & M. T. Thomaz - *Phys. Rev.*, **D41** (6), 1939, (1990).
79. "Comment on Some Results from a Mellin Transform Technique for the Heat Kernel Expansion" - A. P. C. Malbouisson - *J. Math. Phys.*, **31** (5), 1144, (1990).
80. "Quantum Field Theory in Non-Stationary Coordinates System and Green's Functions" - B. F. Svaiter & N. F. Svaiter - *Rev. Bras. Fis.*, **20**, 15, (1990).
81. "Evidence for Vector Diquarks:  $\eta_c$  Decay into Baryon-Antibaryon" - F. Caruso, M. Anselmino, S. Forte & B. Pire - Eds. A.O. Barut, Y. Onel, A. Penzo, *Spin and Polarization Dynamics in Nuclear and Particle Physics*, World Scientific, Singapore, pp. 98-107, (1990).
82. "Problems with Hadronic  $\eta_c$  Decays and the Perturbative QCD Scheme for Exclusive Reactions" - F. Caruso, M. Anselmino & F. Murgia - *Physical Review*, **D 42** (9), 3218-3220 (1990).
83. "Diquark Contributions to the Nucleon Deep Inelastic Structure Functions" - F. Caruso, M. Anselmino, E. Leader & J. Soares - *Zeitschrift für Physik C – Particles & Fields*, **48** (4), 689-692 (1990).
84. "Attractive or Repulsive Nature of Casimir Force in D-Dimensional Minkowski Spacetime" - F. Caruso, N. P. Neto, B. F. Svaiter & N. F. Svaiter - *Physical Review*, **D 43** (4), 1300-1306 (1991).
85. "The Casimir Effect in a D-Dimensional Flat Space-Time and the Cut-off Method" - B. F. Svaiter & N. F. Svaiter - *J. Math. Phys.*, **32**, 175, (1991).
86. "A New Kontorowith-Lebedev Like Transformation" - B. F. Svaiter & N. F. Svaiter - *J. Phys.*, **24**, 3199, (1991).
87. "The  $\eta_c \rightarrow p\bar{p}$  Decay and a Quark-Diquark Model of the Nucleon: The Contribution of Scalar-Vector Diquark Transition" - F. Caruso, M. Anselmino, S. Joffily & J. Soares - *Modern Physics Letters*, **A 6** (15) 1415-1420 (1991).
88. "On the Scalar Casimir Energies in Spacetimes with  $M^d \times T^q$  Structure" - F. Caruso, N. P. Neto, B. F. Svaiter & N. F. Svaiter - *Modern Physics Letters*, **A 6** (20) 1855-1861 (1991).
89. "Charmonium Decays into Proton-Antiproton and a Quark-Diquark Model for the Nucleon" - F. Caruso, M. Anselmino & S. Forte - *Physical Review*, **D 44**(5) 1438-1448 (1991).
90. "The equivalent Schrödinger problem for the Bounce Solution" - A. P. C. Malbouisson - *Journal of Physics A - Mathematical and General*, **24**, 901, (1991).
91. "Gottfried and Bjorken Sum Rules: The Rôle of Vector Diquarks" - F. Caruso, M. Anselmino, V. Barone & E. Predazzi - *Zeitschrift für Physik C – Particles and Fields*, **C55** (1) 97-100 (1992).

92. "Polarization of the  $\chi_{2c}$  IN  $p\bar{p}$  Annihilation: Massless QCD Versus Diquarks" - F. Caruso, M. Anselmino & R. Mussa - *Physical Review*, **D 45** (11) 4340-4341 (1992).
93. "The Analytic Regularization Zeta Function Method and the Cut-off Method in the Casimir Effect" - N. F. Svaiter & B. F. Svaiter - *J. Phys. A*, **25**, 979, (1992).
94. "Inertial and Non Inertial Particle Detectors and Vacuum Fluctuations" - B. F. Svaiter & N. F. Svaiter - *Phys. Rev. D*, **46**, 5267, (1992).
95. "Spin and Mass Effects in Charmonium Decays" - F. Caruso, M. Anselmino & F. Murgia - in *Frontiers of High Energy Spin Physics*, Edited by T. Hasegawa, N. Horikawa, A. Masaike & S. Sawada, Tokyo, Universal Academic Press and Yamada Science Foundation, pp. 625-628, (1993).
96. "Diquarks in Deep Inelastic Scattering and the Gottfried Sum Rule" - F. Caruso & E. Leader - *Anais da Academia Brasileira de Ciências*, **65** (3), 229-232 (1993).
97. "Macroscopic Models for Fusion of Very Heavy Ions" - C. E. Aguiar, Barbosa V. C., E. C. de Oliveira & S. R. Souza - *Physical Review C*, **47**, 5 (1993).
98. "Zero Point Energy and Analytic Regularizations" - B. F. Svaiter & N. F. Svaiter - *Phys. Rev. D*, **47**, 4581, (1993).
99. "Effects of Surface Enhancement on Fluctuations Induced Interaction" - M. Kardar, M. L. Lyra & N. F. Svaiter - *Phys. Rev. E*, **47**, 3451, (1993).
100. "On  $D^+$  doubly suppressed charm decays", I. Bediaga, A.F. Santoro & E. Predazzi, *Phys. Lett.* **B326**, 181 (1994).
101. Reply to "Comment on 'Macroscopic Models for Fusion of Very Heavy Ions'" - C. E. Aguiar, V. C. Barbosa, E. C. de Oliveira & S. R. Souza - *Physical Review*, **C 49**, 4, 2253-2253, (1994).
102. "The Stress Tensor Conformal Anomaly and Analytic Regularizations" - B. F. Svaiter & N. F. Svaiter - *J. Math. Phys.*, **35**, 1840, (1994).
103. "Radiative Properties of a Two-Level System in the Presence of Mirrors" - L. H. Ford, N. F. Svaiter & M. L. Lyra - *Phys. Rev. A*, **49**, 1378, (1994).
104. "Finite temperature one-loop renormalization of  $\lambda\varphi^4$  and Gross-Neveu model- the search for triviality", A. P. C. Malbouisson and N. F. Svaiter CBPF report CBPF-NF-044/94.
105. "Charmonium State Creation and Decay:  $p\bar{p} \rightarrow^1 D_2 \rightarrow^1 P_1 \gamma$ " - F. Caruso, M. Anselmino, F. Murgia & M. R. Negrão - *Physical Review*, **D 51** (5), 2478-2481 (1995).
106. "Higher Twist Corrections to Bjorken Sum Rule" - F. Caruso, M. Anselmino & E. Levin - *Phys. Lett.*, **B358** (1,2), 109-112 (1995).



107. “Diffraction Dissociation of Nuclei in  $\pi^+/k^+p$  Collisions with *Au* and *Al* at 250 GeV/c” - EHS/NA22 Collaboration - HEN-73 January 1995.
108. “One-Loop Renormalization of Self-Interacting Scalar Field in Non-Simply Connected Spacetime” - L. H. Ford & N. F. Svaiter - *Phys. Rev. D*, **51**, 6981, (1995).
109. “Diffractive Production of  $b\bar{b}$  in Proton- Antiproton Collision at the Tevatron” - G. Alves, E. Levin & A. Santoro - FNAL - Pub-96/242-T, Hep-ph 9608443, CBPF/NF-046/96, *Phys. Rev.* **D55**, 2683 (1997).
110. “How the Callan-Gross Relation May Survive in the Presence of Spin 1 Diquarks” - F. Caruso, M. Anselmino, E. Leader & J. Soares - *Anais da Academia Brasileira de Ciências*, **68**, 2, pp. 155-159 (1996).
111. “Scale Dependence of Polarized Deep Inelastic scattering asymmetries” - D. Florian, C. A. Garcia Canal, S. Joffily & R. Sassot - *Phys. Rev.* **D35**, 73-79 (1996).
112. “Next to Leading Order Semi-Inclusive Spin Asymmetries” - D. de Florian, L. N. Epele, H. Fanchiotti, C. A. Garcia Canal, S. Joffily & R. Sassot - *Phys. Lett.* **B389**, 358-366 (1996).
113. “A new derivation of the Coleman-Weinberg mechanism in massless QED”, A. P. C. Malbouisson, F. S. Nogueira and N. F. Svaiter, *Mod. Phys. Lett. A* **11**, 749 (1996).
114. “On the finite temperature  $\lambda\varphi^4$ . Is there a first order phase transition in  $(\lambda\varphi^4)_3$ ?” A. P. C. Malbouisson and N. F. Svaiter, *Physica A* **233**, 573 (1996).
115. “On the Vacuum stability in the efimov-fracdkin model at finite temperature”, A.P.C. Malbouisson and N.F. Svaiter, *Jour. Math. Phys.* **37**, 4352 (1996).
116. “Dimensional transmutation and symmetry breaking in Maxwell- Chern-Simons scalar QED”, F. S. Nogueira and N. F. Svaiter, *Mod. Phys. Lett. A* **20**, 1627 (1996).
117. “Gravitons and light cone fluctuations II - the correlation functions” , L. H. Ford & N. F. Svaiter, *Phys. Rev. D* **54**, 2640 (1996).
118. “Stress tensor detectors and radiative processes for Rindler and accelerating observers”, R. De Paola & N. F. Svaiter, CBPF preprint CBPF-NF-018/96.
119. “Radiative processes for accelerating observers”, R. De Paola and N. F. Svaiter, a ser publicado no Anais do XVII Encontro Nacional de Física de Partículas e Campos, SBF, (1997).
120. “The  $(\lambda\varphi^4 + \sigma\varphi^6)_{D=3}$  model at finite temperature and the tricritical phenomenon” G. N. J. Añaños & N. F. Svaiter, a ser publicado no Anais do XVII Encontro Nacional de Física de Partículas e Campos, SBF, (1997).
121. “The tricritical phenomenon in  $(\lambda\varphi^4 + \sigma\varphi^6)_{D=3}$  at finite temperature ?” G. N. J. Añaños & N. F. Svaiter, a ser publicado em *Physica A* (1997).

122. “Analytic regularization of the Yukawa model at finite temperature”, A. P. C. Malbouisson B.F. Svaiter & N.F. Svaiter, a ser publicado no *J. Math. Phys.* (1997).
123. “Radiative processes for Rindler and accelerating observers”, R. De Paola & N. F. Svaiter, CBPF preprint CBPF-NF-018/96, a ser publicado no *Class. Quant. Grav.*(1997).

## 1.2 Livros

1. “*Leite Lopes Festschrift*” - N. Fleury, S. Joffily, J. A. Martins Simões & A. Troper - Ed. World Scientific, Singapore (1988).
2. *Field Theory and Particle Physics* - V Jorge André Swieca Summer School - A. Santoro (Ed.) - World Scientific, 1989.
3. *Field Theory and Particle Physics* - VI Jorge André Swieca Summer School - O. T. P. Éboli, M. Gomes and A. Santoro (Eds.) - World Scientific, 1991.
4. *Do Átomo Grego à Física das Interações Fundamentais* - F. Caruso & A. Santoro (Eds.), Editora AIAFEX, Rio de Janeiro, 1994 (ISBN 85-85806-01-X), pp. viii + 301. Primeira edição com 500 exemplares (esgotada).

## 1.3 Capítulos em Livros

1. “Interactions between Classical and Quantum Systems and the reduction of the wave packet” - C. M. do Amaral & S. Joffily - *in Leite Lopes Festschrift (op. cit.)*, World Scientific, (1988).
2. “Dividindo o Indivisível” - F. Caruso - em *Do Átomo Grego à Física das Interações Fundamentais, op. cit.*, pp. 49-59 (1994).
3. “Origens Históricas da Mecânica Quântica” - F. Caruso & E. Predazzi - em *Do Átomo Grego à Física das Interações Fundamentais*, pp. 61-70, (1994).
4. “O Desenvolvimento da Física de Partículas” - F. Caruso, M. Begalli & E. Predazzi - em livro *Do Átomo Grego à Física das Interações Fundamentais*, pp. 71-85, (1994)

## 2 Física Experimental de Altas Energias

### 2.1 Artigos Publicados em Revistas Especializadas

1. “Experimental Study of the  $A$  Dependence of  $J/\Psi$  Photoproduction” - E691 Collab. - *Phys. Rev. Lett.*, **57**, 3003, (1986).
2. “Measurements of the  $D^+$  and  $D^0$  Lifetimes” - E691 Collab. - *Phys. Rev. Lett.*, **58**, 311, (1987).

3. "Measurement of the  $D_s^+$  Lifetime" - E691 Collab. - *Phys. Rev. Lett.*, **58**, 1818, (1987).
4. "Measurement of the  $D^0$ ,  $D^+$  and  $D_s^+$  Lifetimes" - E691 Collab. - *Phys. Rev.*, **D37**, 2391, (1988).
5. "Measurement of  $D_s^+$  Decays and Cabibbo Supressed  $D^\pm$  Decays" - E691 Collab. - *Phys. Rev. Lett.*, **60**, 897, (1988).
6. "Study of  $D_0 - \bar{D}_0$  - Mixing" - E691 Collab. - *Phys. Rev. Lett.*, **60**, 1239, (1988).
7. "Measurement of the  $\Lambda_{c^+}$  Lifetime" - E691 Collab. - *Phys. Rev. Lett.*, **60**, 1379, (1988).
8. "Study of the Semileptonic Decay Mode  $D^0 \rightarrow K^- e^+ \nu_e$ " - E691 Collab. - APS (1987), Lepton-Photon - Germany, 1987 - 24th IC.HEP, 1988 - *Phys. Rev. Lett.*, **62**, 1587, (1989).
9. "Charm Photoproduction" - E691 Collab. - *Phys. Rev. Lett.*, **62**, 513, (1989).
10. "An Experimental Study of the Semileptonic Decay  $D^+ \rightarrow \bar{K}^{*0} e^+ \nu_e$ " - E691 Collab. - *Phys. Rev. Lett.*, **62**, 722, (1989).
11. "Observation of Excited Charmed Meson" - E691 Collab. - *Phys. Rev. Lett.*, **62**, 1717, (1989).
12. "Observation of  $\Sigma_c \rightarrow \Lambda_c \pi^-$  decays" - E691 Collab. - *Phys. Rev. Lett.*, **62**, 1721, (1989).
13. "Measurement of  $D_s^\pm$  and  $D^\pm$  Decays to Non Strange States" - E691 Collab. - *Phys. Rev. Lett.*, **62**, 125, (1989).
14. "A Study of  $D_s^\pm$  and  $D^\pm$  Decays into Four-Body Final States Including  $\eta\pi$  and  $\omega\pi$ " - E691 Collab. - *Phys. Lett.*, **B223**, 267, (1989).
15. "Measurement of the mass and width of the  $Z^0$  particle from multihadronic final states produced in  $e^+e^-$  annihilations" - P.Aarnio *et al.*, DELPHI Collaboration - *Phys. Lett.*, **231B**, 539-547 (1989).
16. "Study of Decays of the  $\Lambda_c^+$ " - E691 Collab. - *Phys. Rev.*, **D41**, 801, (1990).
17. "Study of the Decays  $D \rightarrow K^0\pi$  and  $D \rightarrow \bar{K}^0 K^+$ " - E691 Collab. - *Phys. Rev.*, **D41**, 2705, (1990).
18. "Study of the  $D_s^+ \rightarrow \phi e^+ \nu_e$  and the Absolute  $D_s^+ \rightarrow \phi\pi^+$  Branching Fraction" - E691 Collab. - *Phys. Rev. Letters*, **64**, 2885, (1990).
19. "Photon-Gluon-Fusion Analysis of Charm Photoproduction" - E691 Collab. - *Phys. Rev. Letters*, **65**, 2503, (1990).

20. "Measurements of the Form Factors in the Decay  $D^+ \rightarrow K^{*0}e^+\nu_e$ " - E691 Collab. - APS - Vol. 35, 4, 1990 - *Phys. Rev. Letters*, 65, 2630, (1990).
21. "Experimental Results on the Decays  $D \rightarrow K4\pi$ " - E691 Collab. FNAL - PUB 90/106E, *Phys. Rev.*, **D42**, 2414, (1990).
22. "Study of hadronic decays of the  $Z^0$  boson" - P. Aarnio *et al.*, DELPHI Collaboration - *Phys. Lett.*, **240B**, 271-282 (1990).
23. "Study of the leptonic decays of the  $Z^0$  boson" - P. Aarnio *et al.*, DELPHI Collaboration - *Phys. Lett.*, **241B**, 425-434 (1990).
24. "A precise measurement of the  $Z$  resonance parameters through its hadronic decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **241B**, 435-448 (1990).
25. "Search for heavy charged scalars in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **241B**, 449-458 (1990).
26. "Search for light neutral Higgs particles produced in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Phys.*, **B342**, 1-14 (1990).
27. "Search for the  $t$  and  $b'$  quarks in hadronic decays of the  $Z^0$  boson" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **242B**, 536-546 (1990).
28. "Search for pair production of neutral Higgs bosons in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **245B**, 276-288 (1990).
29. "A study of intermittency in hadronic  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **247B**, 137-147 (1990).
30. "Search for scalar quarks in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **247B**, 148-156 (1990).
31. "A search for sleptons and gauginos in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **247B**, 157-166 (1990).
32. "A Comparison of jet production rates on the  $Z^0$  resonance to perturbative QCD" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **247B**, 167-176 (1990).
33. "Measurement of the partial width of the decay of the  $Z^0$  into charm quark pairs" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **252B**, 140-148 (1990).
34. "Energy-energy correlations in hadronic final states from  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **252B**, 149-158 (1990).
35. "Measurement of the Decays  $D^0 \rightarrow \pi^-\pi^+$  and  $D^0 \rightarrow K^-K^+$ " - E691 Collab. - FNAL - Pub. 91/147 - *Phys. Rev.*, **D44**, 3371, (1991).
36. "A Study of the Decay  $D^+ \rightarrow K^0e^+\nu_e$ " - E691 Collab. - FNAL - Pub. 91/151 - *Phys. Rev. Lett.*, **67**, 1507, (1991).

37. "Some Cabibbo-Suppressed Decays of the  $D^0$  Meson" - E691 Collab. - *Phys. Rev.*, **D43**, 635, (1991).
38. "The DELPHI detector at LEP" - P.Aarnio *et al.*, DELPHI Collaboration - *Nucl. Instr. Meth.*, **A 303**, 233-276 (1991).
39. "Charged particle multiplicity distributions in  $Z^0$  hadronic decays" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 50**, 185-194 (1991).
40. "Experimental study of the triple-gluon vertex" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **255B**, 466-476 (1991).
41. "Search for low mass Higgs bosons produced in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 51**, 25-35 (1991).
42. "A study of the reaction  $e^+e^- \rightarrow \mu^+\mu^-$  around the  $Z^0$  pole" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **260B**, 240-248 (1991).
43. "Charged particle multiplicity distributions in restricted rapidity intervals in  $Z^0$  hadronic decays" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.* **C 52**, 271-281 (1991).
44. "Determination of  $Z^0$  resonance parameters and couplings from its hadronic and leptonic decays" - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Phys.*, **B367**, 511-574 (1991).
45. "A measurement of the lifetime of the tau lepton" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **267B**, 422-430 (1991).
46. "The reaction  $e^+e^- \rightarrow \gamma\gamma(\gamma)$  at  $Z^0$  energies" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **268B**, 296-304 (1991).
47. "Study of the Doubly Cabibbo-Suppressed Decay  $D^+ \rightarrow \phi K^+$  and the Singly Cabibbo-suppressed Decays  $D_s^+ \rightarrow \phi K^+$ " - E691 Collab. - *Phys. Rev. Lett.*, **69**, 2892, (1992).
48. "Study of the Decays  $D \rightarrow K\pi\pi e\nu$  and  $D \rightarrow K^*\pi e\nu$ " - E691 Collab. - *Phys. Rev.*, **D45**, 2177, (1992).
49. "Experimental Probes of Final-State Interactions in  $D^0$  Meson Decays" - FNAL - Pub. 92/80 - *Phys. Rev.*, **D46**, 1, (1992).
50. "Study of the Decays  $D \rightarrow K3\pi$ " - E691 Collab. - *Phys. Rev.*, **D46**, 1941, (1992).
51. "Feynman-x and Transverse Momentum Dependence of  $D^+$  and  $D^0\bar{D}^0$  Production in 250 GeV,  $p^-i$ Nucleon Interactions" - E769 Collab. FNAL - Pub.-92/208-E - *Phys. Rev. Letters*, **69**, 3147, (1992).
52. "Searches for heavy neutrinos from Z decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **274B**, 230-238 (1992).

53. "Study of orientation of 3-jet events in  $Z^0$  hadronic decays using the DELPHI detector" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.* **274B**, 498-506 (1992).
54. "Search for excited charged leptons in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 53**, 41-49 (1992).
55. "Study of final state photons in hadronic  $Z^0$  decay and limits on new phenomena" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 53**, 555-565 (1992).
56. "Measurement of the average lifetime of B hadrons" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 53**, 567-580 (1992).
57. "A search for neutral Higgs particles in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Phys.*, **B373**, 3-34 (1992).
58. "Search for scalar leptoquarks from  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **275B**, 222-230 (1992).
59. "Determination of  $\alpha_s$  in second order QCD from hadronic Z decays" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 54**, 55-73 (1992).
60. "Production of strange particles in the hadronic decays of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **275B**, 231-242 (1992).
61. "Multiplicity dependence of mean transverse momentum in  $e^+e^-$  annihilations at LEP energies" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **276B**, 254-262 (1992).
62. "A measurement of the  $b\bar{b}$  forward-backward asymmetry using the semileptonic decay into muons" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **276B**, 536-546 (1992).
63. "A measurement of  $\sin^2\theta_W$  from the charge asymmetry of hadronic events at the  $Z^0$  peak" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **277B**, 371-382 (1992).
64. "Measurement of the  $Z^0$  branching fraction to b quark pairs using the boosted sphericity product" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **281B**, 383-393 (1992).
65. "A study of the decays of tau leptons produced on the Z resonance at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 55**, 555-567 (1992).
66. "Measurement of the partial width of the  $Z^0$  into  $b\bar{b}$  final states using their semileptonic decays" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 56**, 47-61 (1992).
67. "Charged particle multiplicity distributions for fixed number of jets in  $Z^0$  hadronic decays" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 56**, 63-75 (1992).

68. “Bose-Einstein correlations in the hadronic decays of the  $Z^0$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **286B**, 201-210 (1992).
69. “Evidence for  $B_S^0$  meson production in  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **289B**, 199-210 (1992).
70. “Multiplicity fluctuations in hadronic final states from the decay of the  $Z^0$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Phys.*, **B386**, 471-492 (1992).
71. “Classification of the hadronic decays of the  $Z^0$  into b and c quark pairs using a neural network” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **295B**, 383-395 (1992).
72. “Atomic Mass Dependence of  $D_{\pm}^+$  and  $D^0\bar{D}^0$  Production in 250GeV  $\pi^{\pm}$  Nucleon Interactions” - E769 Collab. - FNAL - Pub.- 92/270-E - *Phys. Rev. Letters*, **70**, 722, (1993).
73. “A Dalitz Plot Analysis of  $D \rightarrow K\pi\pi$  Decays - J. Anjos *et al.* - E691 Collab., *Phys. Rev.* **D48**, 56 (1993).
74. “A measurement of B meson production and lifetime using  $D\ell^-$  events in  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 57**, 181-195 (1993).
75. “Measurement of inclusive production of light meson resonances in hadronic decays of the  $Z^0$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **298B**, 236-246 (1993).
76. “A search for lepton flavour violation in  $Z^0$  decays - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **298B**, 247-256 (1993).
77. “A study of  $B^0 - \bar{B}^0$  mixing using semileptonic decays of B hadrons produced from  $Z^0$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **301B**, 145-154 (1993).
78. “A measurement of the tau lifetime” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **302B**, 356-368 (1993).
79. “Determination of  $\alpha_s$  using the next-to-leading-log approximation of QCD” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 59**, 21-33 (1993).
80. “Determination of  $\alpha_s$  for b quarks at the  $Z^0$  resonance” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **307B**, 221-236 (1993).
81. “Measurement of the triple-gluon vertex from 4-jet events at  $LEP$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 59**, 357-368 (1993).
82. “A measurement of D meson production in  $Z^0$  hadronic decays” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 59**, 533-546 (1993).
83. “Measurement of  $\Lambda_b$  production and lifetime in  $Z^0$  hadronic decays” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **311B**, 379-390 (1993).

84. "Determination of  $\alpha_s$  from the scaling violation in the fragmentation functions in  $e^+e^-$  annihilation" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **311B**, 408-424 (1993).
85. "Search for  $Z^0$  decays to two leptons and a charged particle-antiparticle pair" - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Phys.*, **B403**, 3-24 (1993).
86. "A measurement of the mean lifetimes of charged and neutral B-hadrons" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **312B**, 253-266 (1993).
87. "Limits on the production of scalar leptoquarks from  $Z^0$  decays at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **316B**, 620-630 (1993).
88. "Production of  $\Lambda$  and  $\Lambda\bar{\Lambda}$  correlations in the hadronic decays of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **318B**, 249-262 (1993).
89. "Pomeron-Pomeron Cross Section from Inclusive production of a Central cluster in Quasi-Elastic  $\pi^+p$  and  $k^+p$  at  $250\text{GeV}/c$ " - N. Agababyan, E. C. Oliveira *et al.* - EHS/NA22 Collaboration - *Z. Phys. C*, (1993).
90. "The E791 Parallel Architecture Data Acquisition System", S. Amato, J.M. de Miranda, C. James, D. Summers & S. B. Bracker, *Nucl. Inst. and Meth. in Phys. Res. A* **324**, 535 (1993).
91. " $D^{*\pm}$  Production in 250 GeV  $\pi^\pm$  N Interactions" - E769 Collab. - FERMILAB - Pub.- 93/081-E, *Phys. Rev. Lett.*, **49**, 4317 (1994).
92. "The DØ Detector" - DØ Collab., *NIM A338*, 185 (1994).
93. "Rapidity Gaps Between Jets in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - DØ Note 2021 - FNAL - Pub. 94/005-E - *Phys. Rev. Lett.*, **72**, 2332 (1994).
94. "First Generation Leptoquark Search in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - DØ Note 1974 - FNAL - Pub.-93/340-E - *Phys. Rev. Lett.*, **72**, 965 (1994).
95. "Search for the Top Quark in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - DØ Note 1999 - FNAL - Pub. -94/004-E - *Phys. Rev. Lett.*, **72**, 2138 (1994).
96. "Enhanced Leading Production of  $D^\pm$  and  $D^{*\pm}$  in 250 GeV  $\pi^\pm$  Nucleon Interactions" - E769 Collab. - FNAL - Pub. 93/310-E - *Phys. Rev. Lett.*, **72**, 812 (1994).
97. "Production rate and decay lifetime measurements of  $B_s^0$  mesons at LEP using  $D_s$  and  $\phi$  mesons" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 61**, 407-419 (1994).
98. "Measurement of the  $B^0 - \bar{B}^0$  mixing using the average electric charge of hadron-jets in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **322B**, 459-472 (1994).



99. "Invariant mass dependence of particle correlations in hadronic final states from the decay of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 63**, 17-28 (1994).
100. "Interference of neutral kaons in the hadronic decays of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **323B**, 242-252 (1994).
101. "Study of hard scattering processes in multihadron production from  $\gamma\gamma$  collisions at DELPHI", - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 62**, 357-365 (1994).
102. "Measurements of the lineshape of the  $Z^0$  and determination of electroweak parameters from its hadronic and leptonic decays" - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Phys.*, **B417**, 3-57 (1994).
103. "A measurement of the  $B_s^0$  meson mass" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **324B**, 500-508 (1994).
104. "A precision measurement of the average lifetime of B hadrons" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 63**, 3-15 (1994).
105. "Improved measurements of cross sections and asymmetries at the  $Z^0$  resonance" - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Phys.*, **B418**, 403-427 (1994).
106. "Measurement of the  $e^+e^- \rightarrow \gamma\gamma(\gamma)$  cross section at LEP energies" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **327B**, 386-396 (1994).
107. "Search for the standard model Higgs boson in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Phys.*, **B421**, 3-37 (1994).
108. "Measurement of the  $B^0$ - $\bar{B}^0$  mixing parameter in DELPHI" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **332B**, 488-500 (1994).
109. "Search for pair-produced heavy scalars in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 64**, 183-193 (1994).
110. "Charged Kaon production in Tau decays at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **334B**, 435-449 (1994).
111. "Measurement of time dependent  $B_d^0 - \bar{B}_d^0$  mixing" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **338B**, 409-420 (1994).
112. " $J/\psi$  production in the hadronic decays of the  $Z$ " - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **341B**, 109-122 (1994).
113. "Angular Dependence of Factorial Moments in  $\pi^+/k^+p$  Interactions at 250 GeV/c" - N. Agababyan, E. C. de Oliveira *et al.* EHS/NA22 Collaboration - *Phys. Lett.*, **B328**, 199-206 (1994).

114. "Measurement of the  $WW_\gamma$  Gauge Boson Couplings in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. S.Abach *et al.* - FNAL - Pub.-95/101-E - *Phys. Rev. Lett.*, **75**, 1034 (1995).
115. "Search for High Mass Top Quark Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab.(S.Abach *et al.*) FNAL - Pub-94-354E 1994-, *Phys. Rev. Lett.*, **74**, 2422 (1995).
116. "Observation of the Top Quark" - DØ Collab. (S.Abachi *et al.*) FNAL - Pub-95-028-E 1995 - *Phys. Rev. Lett.*, **74**, 2632 (1995).
117. "Inclusive  $\mu$  and b Quark Production Cross sections in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab., (S.Abach *et al.*) FNAL - Pub-94-409E 1994 - *Phys. Rev. Lett.*, **74**, 3548 (1995).
118. "Search for Squarks and Gluinos in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - *Phys. Rev. Lett.*, **74**, 3548 (1995).
119. "Search for W-Boson Pair Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - *Phys. Rev. Lett.*, **75**, 1028 (1995).
120. "Search for Heavy W Bosons in 1.8 TeV  $p\bar{p}$  Collisions" - DØ Collab. - FNAL - Pub-95/283-E, *Phys. Lett.*, **B 358**, 405 (1995).
121. "Transverse Energy Distribution within Jets in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - FNAL - Pub-95/203-E - *Phys. Lett.*, **B 357**, 500 (1995).
122. "Study of the Strong Coupling Constant Using W + Jet Processes" - DØ Collab. - FNAL - Pub-95/219-E - *Phys. Rev. Lett.*, **75**, 3226 (1995).
123. "Second Generation Leptoquark Search in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - FNAL - Pub-95/85-E, 1995 - *Phys. Rev. Lett.*, **75**, 3618 (1995).
124. "Top Quark search with the DØ 1992-1993 data sample" - DØ Collab. - *Phys. Rev.*, **D 52**, 4877 (1995).
125. "Limits on the Anomalous  $ZZ_\gamma$  and  $Z_\gamma\gamma$  Couplings in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - *Phys. Rev. Lett.*, **75**, 1028 (1995).
126. "W and Z Boson Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - *Phys. Rev. Lett.*, **75**, 1456 (1995).
127. "Jet Production via Strongly-Interacting Color-Singlet Exchange in  $p\bar{p}$  Collisions" - DØ Collab. - FNAL - Pub-95/302-E, 1995, *Phys. Rev. Lett.*, **76**, 734 (1995).
128. "Search for  $\tilde{W}_1\tilde{Z}_2$  Production via Tripleton Final States in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - FNAL Pub-95/385-E, 1995, *Phys. Rev. Lett.*, **76**, 2228 (1995).

129. “A study of radiative muon-pair events at  $Z^0$  energies and limits on an additional  $Z'$  gauge boson” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 65**, 603-618 (1995).
130. “Production characteristics of  $K^0$  and light meson resonances in hadronic decays of the  $Z^0$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 65**, 587-602 (1995).
131. “Measurement of the  $\Gamma_{b\bar{b}}/\Gamma_{had}$  branching ratio of the  $Z$  by double hemisphere tagging” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 65**, 555-568 (1995).
132. “Measurement of the forward-backward asymmetry of  $e^+e^- \rightarrow Z \rightarrow b\bar{b}$  using prompt leptons and a lifetime tag” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 65**, 569-585, (1995).
133. “First evidence of hard scattering processes in single tagged  $\gamma\gamma$  collisions” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **342B**, 402-416 (1995).
134. “Measurement of the  $\Gamma_{b\bar{b}}/\Gamma_{had}$  using impact parameter measurements and lepton identification” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 66**, 323-339 (1995).
135. “Measurement of the forward-backward asymmetry of charm and bottom quarks at the  $Z$  pole using  $D^{*\pm}$  mesons” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 66**, 341-354 (1995).
136. “Observation of orbitally excited  $B$  mesons” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **345B**, 598-608 (1995).
137. “First measurement of the strange quark asymmetry at the  $Z^0$  peak” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 67**, 1-13 (1995).
138. “Search for heavy neutral Higgs bosons in two-doublet models” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 67**, 69-79 (1995).
139. “Measurements of the  $\tau$  polarisation in  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 67**, 183-201 (1995).
140. “Production of charged particles  $K_S^0$ ,  $K^\pm$ ,  $p$  and  $\Lambda$  in  $Z \rightarrow b\bar{b}$  events and in the decay of  $B$  hadrons” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **347B**, 447-466 (1995).
141. “Inclusive measurements of the  $K^\pm$  and  $p/\bar{p}$  production in hadronic  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Phys.*, **B444**, 3-26 (1995).
142. “Strange baryon production in  $Z$  hadronic decays” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 67**, 543-553 (1995).
143. “A measurement of  $B^+$  and  $B^0$  lifetimes using  $\overline{D}\ell^+$  events” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 68**, 13-23 (1995).

144. “ $B^*$  production in Z decays” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 68**, 353-362 (1995).
145. “Lifetimes of charged and neutral B hadrons using event topology” - W. Adam *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 68**, 363-374 (1995).
146. “Lifetime and production rate of beauty baryons from Z decays” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 68**, 375-390 (1995).
147. “Production of strange B baryons decaying into  $\Xi^\mp - \ell^\mp$  pairs at LEP” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 68**, 541-553 (1995).
148. “Observation of short range three-particle correlations in  $e^+e^-$  annihilations at LEP energies” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **355B**, 415-424 (1995).
149. “Search for exclusive charmless B meson decays with the DELPHI detector at LEP” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **357B**, 255-266 (1995).
150. “A measurement of the  $\tau$  leptonic branching fractions” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **357B**, 715-726 (1995).
151. “Upper limits on the branching ratios  $\tau \rightarrow \mu\gamma$  and  $\tau \rightarrow e\gamma$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **359B**, 411-421 (1995).
152. “Study of prompt photon production in hadronic  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 69**, 1 (1995).
153. “A measurement of the photon structure function  $F_2^\gamma$  at an average  $Q^2$  of 12  $\text{GeV}^2/c^4$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C 69**, 223 (1995).
154. “Measurement of  $\Delta^{++}(1232)$  production in hadronic Z decays” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **361B**, 207-220 (1995).
155. “Studies of Topological Distributions of Inclusive Three- and Four-Jet Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8\text{TeV}$ ,” *Phys. Rev.* **D53**, 6000 (1996).
156. “Jet Production via Strongly Interacting Color-Singlet Exchange in  $p\bar{p}$  Collisions” - DØ Collab. - FNAL - Pub-95/302-E, 1995, *Phys. Rev. Lett.*, **76**, 734, (1996).
157. “Search for Right-Handed W Bosons and Heavy  $W'$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8\text{TeV}$ ” - DØ Collab. - FNAL Pub-95/412-E, 1995, *Phys. Rev. Lett.*, **76**, 3271 (1996).
158. “Search for  $Wino_1, Zino_2$  via Tripleton Final States in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8\text{TeV}$ ” - DØ Collab. - FNAL Pub-95/385-E, 1995, *Phys. Rev. Lett.*, **76**, 2228 (1996).
159. “Asymmetries Between the Production of  $D^+$  and  $D^-$  Mesons from 500  $\text{GeV}/c$   $\pi^-$  - Nucleon Interactions as a Function of  $x_f$  and  $p_t^2$ ” - E791 Collab., FNAL - Pub-96/001-E, 1996, *Phys. Lett.*, **B371**, 157 (1996).

160. “J/  $\Psi$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV” - DØ Collab. - FNAL Pub-96/003-E, 1996, *Phys. Lett.*, **B370**, 239-248 (1996).
161. “Search for Light Top Squarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV” - DØ Collab. - FNAL Pub-95/380-E, 1996, *Phys. Rev. Lett.*, **76**, 2222 (1996).
162. “Azimuthal Decorrelation of Jets Widely Separated in Rapidity” - DØ Collab. - FNAL - Pub-96/038-E, 1996, *Phys. Rev. Lett.*, **77**, 595 (1996).
163. “The Isolated Photon Cross Section in the Central and Forward Rapidity Regions in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV” - DØ Collab. - FNAL Pub-96/072-E, 1996, *Phys. Rev.*, **77**, 5011 (1996).
164. “Feynman-x and Transverse Momentum Dependence of D Meson Production in 250 GeV  $\pi$ , K, and p Interactions with nuclei” - E769 Collab. - FNAL - Pub-96/084, *Phys. Rev. Lett.*, **77**, 2392 (1996).
165. “Search for Additional Neutral Gauge Bosons” - DØ Collab. - FNAL - Pub-96/187-E, *Phys. Lett.*, **B385**, 471 (1996).
166. “Measurement of the W Boson Mass” - DØ Collab. - FNAL - Pub-96/177-E, 1996, *Phys. Rev. Lett.*, **77**, 3309 (1996).
167. “Search for  $D^0\bar{D}^0$  Mixing in Semileptonic Decay Modes” - E791 collab. - FNAL - Pub-96/109-E, accepted *Phys. Rev. Lett.* (1996).
168. “Search for Anomalous  $WW$  and  $WZ$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV” - DØ Collab. - FNAL Pub-96/115-E, 1996, Submitted to *Phys. Rev. Lett.* (1996).
169. “Forward Cross-Section for Production of  $D^+$ ,  $D^0$ ,  $D_s$ ,  $D^{*+}$  and  $\Lambda_c$  in 250 GeV  $\pi_{\pm}^+$ ,  $K_{\pm}^+$  and p - Nucleon Interactions” - E769 Collab. - FNAL - Pub-96/083, *Phys. Rev. Lett.*, **77**, 2388 (1996).
170. “Search for Flavour-Changing Neutral Current Decays  $D^+ \rightarrow \pi^+ \mu^+ \mu^+$  and  $D^+ \rightarrow \pi^+ e^+ e^-$ ” - E791 Collab. - *Phys. Rev. Lett.*, **76**, 364 (1996).
171. “ $D - \pi$  production correlation in 500 GeV  $\pi^-$  N interaction” - E791 Collab. - submitted to *Phys. Rev. Lett.*, (1996).
172. “Mass Splitting and Production of  $\Sigma_c^0$  and  $\Sigma_c^{++}$  measured in 500 GeV  $\pi^-$  N interactions” - E791 Collab. - *Phys. Lett.*, **B379**, 292 (1996).
173. “A Search  $D^0\bar{D}^0$  Mixing and Doubly Cabibbo Suppressed decays of the  $D^0$  in Hadronic Final States” - E769 Collab. - FNAL- Pub-96/214, Submitted to *Phys. Rev. D*, (1996).
174. “Search for Anomalous  $WW$  and  $WZ$  Production in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV” - DØ Collab. - FNAL- Pub.96/115-E, *Phys. Rev. Lett.*, **77**, 3303 (1996).

175. "Limits on Anomalous  $WW\gamma$  Couplings from  $\bar{p} p \rightarrow W\gamma + X$  events at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - FNAL- Pub.96/XXX-E, submitted to *Phys. Rev. Lett.*, (1996).
176. "Search for a Fourth Generation -1/3 Quark via Flavour Changing Neutral Current Decay" - DØ Collab. - FNAL- Pub.96/430-E, submitted to *Phys. Rev. Lett.* (1996).
177. "Search for promptly produced heavy quarkonium states in hadronic  $Z$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C69**, 575 (1996).
178. "Measurement of inclusive  $\pi^0$  production in hadronic  $Z^0$  decays" - W.Adam *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C69**, 561 (1996).
179. "A precise measurement of the Tau lepton lifetime" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **365B**, 448 (1996).
180. "Energy dependence of the differences between the quark and gluon jet fragmentation" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C70**, 179 (1996).
181. "Performance of the DELPHI detector" - P. Abreu *et al.*, DELPHI Collaboration - *Nucl. Instr. and Meth.*, **A378**, 57 (1996).
182. "Charged particle multiplicity in  $e^+e^-$  interactions at  $\sqrt{s} = 130$  GeV" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **372B**, 172 (1996).
183. "Measurement of the  $B_d^0$  oscillation frequency using kaons, leptons and jet charge" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C72**, 17 (1996).
184. "Determination of  $|V_{cb}|$  from the semileptonic decay  $B^0 \rightarrow D^{*-}\ell^+\nu$ " - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C71**, 539 (1996).
185. "Production of  $\Sigma^0$  and  $\Omega^-$  in  $Z$  decays" - W.Adam *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C70**, 371 (1996).
186. "Updated precision measurement of the average lifetime of  $B$  hadrons" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **377B**, 195 (1996).
187. "Measurement of the partial decay width  $R_b^0 = \Gamma_{b\bar{b}}/\Gamma_{had}$  of the  $Z$  with the DELPHI detector at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C70**, 531 (1996).
188. "Search for exclusive decays of the  $\Lambda_b$  baryon and measurement of its mass" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **374B**, 351 (1996).
189. "Determination of the average lifetime of  $b$  baryons" - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C71**, 199 (1996).
190. "First measurement of  $f_2'(1525)$  production in  $Z^0$  hadronic decays" - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **379B**, 309 (1996).

191. “Mean lifetime of the  $B_s^0$  meson” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C71**, 11 (1996).
192. “First study of the interference between initial and final state radiation at the  $Z$  resonance” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C72**, 31 (1996).
193. “Kaon interference in the hadronic decays of the  $Z$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **379B**, 330 (1996).
194. “Search for anomalous production of single photons at  $\sqrt{s} = 130$  and  $136\text{GeV}$ ” - W. Adam *et al.*, DELPHI Collaboration - *Phys. Lett.*, **380B**, 471 (1996).
195. “Study of radiative leptonic events with hard photons and search for excited charged leptons at  $\sqrt{s} = 130 - 136\text{GeV}$ ” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **380B**, 480 (1996).
196. “Study of rare  $b$  decays with the DELPHI detector at LEP” - W. Adam *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C72**, 207 (1996).
197. “Search for the lightest chargino at  $\sqrt{s} = 130$  and  $136\text{GeV}$  in DELPHI” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **382B**, 323 (1996).
198. “Search for high mass  $\gamma\gamma$  resonances in  $e^+e^- \rightarrow \ell^+\ell^-\gamma\gamma$ ,  $\nu\bar{\nu}\gamma\gamma$  and  $q\bar{q}\gamma\gamma$  at *LEP I*” - P. Abreu *et al.*, DELPHI Collaboration - *Zeit. Phys.*, **C72**, 179 (1996).
199. “Search for neutralinos, scalar leptons and scalar quarks in  $e^+e^-$  interactions at  $\sqrt{s} = 130$  GeV and  $136$  GeV” - P. Abreu *et al.*, DELPHI Collaboration - *Phys. Lett.*, **387B**, 651 (1996).
200. “Two and three-dimensional analysis of Bose-Einstein correlations in  $\pi^+/K^+p$  interactions at  $250$  GeV/ $c$ ” - Agababyan, E. C. de Oliveira, *et al.* EHS/NA22 Collaboration - *Z. Phys.*, **C 71**, 405-414 (1996).
201. “Search for pair production of heavy objects in 4 jet events at  $\sqrt{s} = 130 - 136$  GeV, W. Adam *et al.*, DELPHI Collab., *Zeit. Phys.* **C73**, 1 (1996).
202. “Tuning and test of fragmentation models based on identified particles and precision event shape data”, P. Abreu *et al.*, DELPHI Collab., *Zeit. Phys.* **C73**, 11 (1996).
203. “Measurement of inclusive  $K^{*0}(892)$ ,  $\varphi(1020)$  and  $K_2^{*0}(1430)$  production in hadronic  $Z$  decays”, P. Abreu *et al.*, DELPHI Collab., *Zeit. Phys.* **C73**, 61 (1996).
204. “An upper limit for  $BR(Z^0) \rightarrow \gamma\gamma\gamma$  from symmetric 3-Jet  $Z^0$  hadronic decays”, P. Abreu *et al.*, DELPHI Collab., *Phys. Lett.* **389B**, 405 (1996).

## 2.2 Livros

1. *Proceedings of the III Symposium on Pan-American Collaboration in Experimental Physics* - Rio de Janeiro - October, 1987 - Roy Rubinstein & A. Santoro (Eds.) - World Scientific, 1989.
2. *Heavy Flavour Physics: cbt Workshop - Proceedings LISHEP95 - LAFEX International School on High Energy Physics* - F. Caruso, M.E. Pol, A. Santoro & R. Shellard (Eds.), 6-22 Feb. 1995, Session C, Gif-sur-Ivette, Editions Frontières, 1995, ISBN 2-86332-187-0.
3. *CHEP95 - Computing on High Energy Physics* - Proceedings - R. Shellard & T. D. Nguyen (Eds.), Singapore, World Scientific, 1996, ISBN 981-02-2783-3.

## 2.3 Teses (Teóricas e Experimentais)

### 2.3.1 Mestrado

1. “Matrizes de um Espalhamento por Potencial Complexo”, CBPF, (1970) - Sérgio Joffily - Orientador: José Leite Lopes.
2. “Método do Momento de Energia Aplicado ao Código 1DX (para preparação de seções de choque multigrupo aplicáveis a reatores rápidos)”, *COPPE/UFRJ*, (1978) - E. C. de Oliveira.
3. “Estudo sobre Possíveis Evidências de Estruturas de Quarks nos Bárions”, CBPF, (1982) - I. Bediaga. Orientador: A. Santoro.
4. “Estudos de Contribuições de Corrente de troca para o Espalhamento Pion-Deuteron a Energias Intermediárias”, CBPF, (1983) - Stenio Wolck de Melo. Orientador: João Carlos C. dos Anjos.
5. “Aplicação do Modelo de Dupla Troca à Produção de  $A_1$  na Reação  $\pi^p \rightarrow p(3\pi)^-$ ”, CBPF, (1983) - José Maria Pires. Orientador: A. Santoro.
6. “Bolas de Gluons em  $\pi^-p \rightarrow \phi\phi n$ ”, CBPF, (1983) - F. Caruso. Orientador: A. Santoro.
7. “Equações Relativísticas de Movimento em Reações Nucleares a Altas Energias”, CBPF, (1985) - Alberto C. dos Reis. Orientador: Takeshi Kodama.
8. “Análise Experimental do Decaimento Fraco  $D^+ \rightarrow \phi k^+$ , Duplamente Suprimido por Cabibbo”, CBPF, (1991) - José Guilherme Lima. Orientador: A. Santoro.
9. “Dependência da Seção de Choque de Produção dos Bárions Estranhos  $\lambda$  e  $\bar{\lambda}$  com o número de massa”, CBPF, (1992) - Miriam M. Gandelman. Orientador: Ignácio A. Bediaga e Hickman.
10. “A Identificação de Eventos de Quarks  $b$  com o uso de Redes Neurais”, CBPF, (1993) - André Sznajder. Orientador: Ronald C. Shellard.



11. “Análise Experimental do Modo de Decaimento  $D^+ \rightarrow \pi^+ \mu^+ \mu^-$  com troca de Sabor do Quark  $c$  por Corrente Neutra”, CBPF, (1993) - Wagner de Paula Carvalho. Orientador: Ignácio A. Bediaga e Hickman.
12. “O Decaimento  $D^0 \rightarrow \phi \bar{K}^0$  no Experimento Fotoprodução de Charme (E691)”, CBPF, (1993) - Marcello Santo Nicola. Orientadores: Alberto Santoro/Gilvan A. Alves.
13. “Da Contribuição dos Diquarks à Descrição de Efeitos de “Higher Twist” Observados no Espalhamento Profundamente Elástico”, CBPF, (1994) - André B. Penna Firme. Orientador: Francisco Caruso.
14. “Sobre o Processo de Formação e Decaimento do Estado  $D_2$  do Charmonium”, CBPF, (1995) - Margarida Maria R. Negrão. Orientador: Francisco Caruso.
15. “Estudo do Decaimento  $\tau \rightarrow \rho \nu_\tau$  no Experimento DELPHI”, CBPF, (1995) - Monique K. M. Srivastava - Orientadora: Maria Elena Pol.
16. “Sobre a Contribuição dos Diquarks ao Espalhamento Profundamente Inelástico Neutrino-Nucleon”, CBPF, (1995) - Paulo Cesar Ribeiro Quinteiros. Orientador: Francisco Caruso.

### 2.3.2 Doutorado

1. “Étude d’un mécanism d’échange multiple dans le reactions elastique et inelastique d’ions lourds a basse energie”, Strasbourg, Thèse D’État (1983) - Sérgio Joffily. Orientador: F. Becker.
2. “Correlações em Reações de Dissociação Difrativa Hadrônica”, CBPF, (1985) - Antonio Carlos B. Antunes. Orientador: A. Santoro.
3. “Teoria Quântica de Campos em Sistemas de Coordenadas Curvilineas no Espaço-Tempo de Minkowski e Curvos” - Nami Fux Svaiter. Orientador: Mário Novello, CBPF, (1989).
4. “Simulação de Reações Profundamente Inelásticas entre Ions Pesados por Equações de langevin”, CBPF, (1990) - Edgar Correa de Oliveira. Orientador: Luiz Carlos Gomes.
5. “Dependência em “A” para Produção de Mésons Charmosos”, CBPF, (1992) - Gilvan Augusto Alves. Orientadores: A. Santoro & M. H. G. e Souza.
6. “Características da Produção Hadrônica de Mésons  $D^{*\pm}$ ”, CBPF, (1992) - Jussara Marques de Miranda. Orientadores: A. Santoro & M. H. G. e Souza.
7. “Medida da Seção de Choque de Produção do Bárion Charmoso  $\Lambda_c$  em interações Pion-Núcleo a 250 GeV/c”, CBPF, (1992) - Alberto Corrêa dos Reis. Orientadores: A. Santoro & Ignácio Bediaga e Hickman.

8. “Dependência em  $x_F$  e  $p_t$  da Produção Hadrônica de Mésons  $D^0$  e  $\bar{D}^0$ ”, CBPF, (1992) - João Ramos Torres Mello Neto. Orientadores: A. Santoro & M. H. G. e Souza.
9. “Produção de Mésons  $D^{*\pm}$  em Colisões Hadron-Núcleo à 250 GeV, observado no modo de Decaimento  $D^0\pi^\pm$ ,  $D^0 \rightarrow K^\mp\pi^\pm\pi^0$ ”, CBPF, (1992) - Sandra Filippa Amato. Orientadores: A. Santoro & Ignácio A. Bediaga e Hickman.
10. “Produção de Mésons  $D^\pm$  em Colisões  $K^\pm$  Nucleons a 250 GeV”, CBPF, (1993) - Hélio da Motta Filho. Orientadores: A. Santoro & M. H. G. e Souza.
11. “Sobre a Contribuição Genérica dos Diquarks Escalares e Pseudo-Vetoriais às Funções de Estrutura do Nucleon”, CBPF, (1995) - José Soares Barbosa. Orientador: Francisco Caruso.
12. “Estudos da Seção de Choque de Produção Inclusiva de Múons a Baixos Ângulos em Colisões  $p\bar{p}$  a  $\sqrt{s} = 1,8$  TeV”, CBPF, (1995) - José Guilherme R. de Lima. Orientador: Alberto Santoro.
13. “Produção Inclusiva de Bottom em Colisões  $p\bar{p}$  a  $\sqrt{s} = 1,8$  TeV na Região Central do Detector DØ”, CBPF, (1995) - Vitor Oguri. Orientador: Alberto Santoro.
14. “A Medida de  $\Gamma_{b\bar{b}}/\Gamma_{had}$  com um Detetor de Vértice no DELPHI” - CBPF, (1996) - Miriam M. Gandelman. Orientador: Ronald C. Shellard.
15. “Métodos Mössbauer em Teorias de Campo e Física da Matéria Condensada”, CBPF, (1996) - Flávio de Souza Nogueira. Orientadores: Adolfo Pedro C. Malbouisson & Nami F. Svaiter.

## 2.4 Proceedings, Conferências, Escolas, Workshops na área de Partículas e Campos

1. “A Dynamical Explanation of the ABC Effect” - J. Anjos, D. Levy & A. Santoro - *XVI Int. Conf. of High Energy, Batavia*, 423, (1972).
2. “The Cross-over Phenomenon in Diffractive  $Q-\bar{Q}$  Production” - G. Cohen-Tannoudji, C. Gilain & A. Santoro - *II Aix-en-Provence Int. Conf. on Elem. Part.* - France, (1973).
3. “Dual Triple Pomeron Vertex and Diffractive Background” - G. Cohen-Tannoudji, C. Gilain, A. Santoro - *II Aix-en-Provence Int. Conf. on Elem. Part.* - France, (1973).
4. “A Deck-line Model for the ABC Production in  $p + n \rightarrow d + (\pi\pi)^0$  reaction” - J. Anjos, D. Levy & A. Santoro - *II Aix-en-Provence Int. Conf. on Elem. Part.* - France, (1973).

5. "Elastic and Inelastic scattering in the LCNO model" - F. Becker, S. Joffily, C. Beccaria & G. Baron, *Proceedings of the Workshop on Heavy Ion Scattering*, F. Becker (Ed.), Strasbourg, pp. VII 1-15 (1976).
6. " $A_1 \rightarrow \rho + \pi$  Ressonância e/ou Fundo não Ressonante" - A. Santoro, *Rev. Bras. Fís.*, Vol. Especial, 236, (1979).
7. "Orbitais moleculares nas colisões nucleares" - S. Joffily, *Anais da II Reunião de Trabalho sobre Física Nuclear no Brasil*, Cambuquira, pp. 73-74 (1979).
8. "Sistemática do Modelo a 3 Componentes para as Reações de Dissociação Difractiva" - A. Santoro, *Proc. 1<sup>o</sup> Encontro Nacional de Física Partículas*, p. 78 - Cambuquira (MG), Brazil, Jun. (1979).
9. "Sobre os Esquemas de Cálculo Neutrônico do ANL via ETOE/MC2-2 do LASL via MINX/NJOY e seu Uso para Cálculos de Reatores Rápidos" - E. S. Amorim, A. B. D'Oliveira & E. C. de Oliveira, *EAV/NT 018/80*, (1980).
10. "Análise de Sensitividade da Seção de Choque do  $U$  em Sistemas Nucleares Térmicos" - E. S. Amorim, A. B. D'Oliveira & E. C. de Oliveira - *EAV/NT 017/80* (1980).
11. "Fenomenologia Hadrônica" - A. Santoro, *III Encontro Nacional de Part. e Campos* - Cambuquira - Brazil, Proceedings p.85-124, (1981).
12. "Análise de Sensitividade da Seção de Choque do  $U$  em Sistemas Nucleares Rápidos" - SENSEAV-R. RPEAV/023-EN/80, E. S. Amorim, A. B. D'Oliveira & E. C. de Oliveira - *II ENFR*, Itaipava, RJ, (1981).
13. "Dualidade e Bolas de Grude" - A. Santoro, Monografia - CBPF - MO - 002/83 - *II Escola de Campos e Partículas Jorge André Swieca*, (1983).
14. "Equações variacionais para dinâmicas clássico-quânticas" - C. Marcio do Amaral & S. Joffily, *Anais da VII Reunião de Trabalho sobre Física Nuclear no Brasil*, Itatiaia, pp. 194-196, (1984).
15. "Estados excitados do  $^{94}\text{Zr}(d, d')^{94}\text{Zr}^* a15\text{MeV}$ " - E. Frota-Pessoa & S. Joffily, *Anais da VII Reunião de Trabalho sobre Física Nuclear no Brasil*, Itatiaia, pp. 156-158, (1984).
16. "Resolução do estado fundamental do  $^{95}\text{Zr}$ " - E. Frota-Pessoa & S. Joffily, *Anais da VIII Reunião de Trabalho sobre Física Nuclear no Brasil*, São Lourenço, pp. 123-126, (1985).
17. "New Charm Results Using High Precision Vertex Detector" - E691 Collab. - *VII Vanderbilt Conf. on Elem. Part. Phys.*, p. 34-61 (1986).
18. "Charm Physics in Photoproduction E691" - E691 Collab. - *Physics in Colision*, p. 283-294 - Ed. M. Derrick - Singapore, World Scientific (1986).

19. “Early Results on Charm Photoproduction” - FTPSC - The E691 Collab. - *Int. Conf. of High Energy Physics* - Berkeley, 1369 (1986).
20. “Measurements on the Decay of Charm Particles: Lifetimes of the  $D^0$ ,  $D^+$  and  $F^+$  and Relative Branching Fractions of the  $D^+$  and  $F^+$  into the Channels  $\bar{K}^{*0}K^+$  and  $\phi\pi^+$ ” - E691 Collab. - *Int. Conf. of High Energy Physics* - Berkeley, (1986).
21. “Study of the Decays  $D_{\pm}^+$  and  $D_{\pm}^0 \rightarrow \pi_{\pm}^+\pi_{\mp}^-\pi_{\pm}^+$  and  $\rho-\pi_{\pm}^+$  in FERMILAB Experiment E691” - E691 Collab. - *Lepton Photon Int. Symp. H. E. Germany*, July (1987).
22. “Experimental Results on Heavy Flavours Hadro and Photoproduction” - E691 Collab. - *Rencontre de Morion*, 1987 - FNAL, 87/82, (1987).
23. “Charm Results from Photoproduction Experiment E691” - E691 Collab. - *SLAC Summer Institute* - Stanford - Col., (1987).
24. “Charm Photoproduction Results from the FERMILAB Tagged Photon Spectrometer” - E691 Collab. - *1987 Meeting of the DPF - Salt Lake City*, Utah, Jan. (1987).
25. “Recent Results from E691” - E691 Collab. - *SLAC Topical Conference*, (1988).
26. “Charm Photoproduction Results from FERMILAB E691 and Prospects for Hadroproduction in E769” - E769 and E691 Collab. - *Introduced in High  $P_t$  Phys. & Higher Twists* - Sep., Paris - Munich IHEP Conference 675, (1988).
27. “Hadronic Charm Decay Results from E691” - E691 Collab. - *Les Arcs 1988 Proceedings*, Current Issues in Hadronic Physics, 505, (1988).
28. “Charm Hadroproduction at FERMILAB E769” - E769 Collab. - *XXIII Rencontre de Moriond*, Current Issues in Hadronic Physics 451, (1988).
29. “A Search of Flavour Changing Neutral Current Process in Decays of Charmed Mesons” - E691 Collab. - FNAL, Conf. 87/143E, 1987 - *XXIV - ICHEP* - Paper A249 - Munich, (1988).
30. “A Study of the Decays  $D^0 \rightarrow K^-\pi^+\pi^+\pi^-$  and  $D^+ \rightarrow K^-\pi^+\pi^+\pi^-\pi^+$ ” - E691 Collab. - *XXIV Int. Conf. on HEP* - paper 402 - Munich, (1988).
31. “Results of an Anlysis of the Production of Charm by Photon from E691” - E691 Collab. - *XXIV Int. Conf. on HEP* - paper A270, Munich, (1988).
32. “Multiplicidade de partículas carregadas na aniquilação elétron-pósitron” - I. Bediaga & S. Joffily, *Anais do IX Encontro Nacional de Física de Partículas e Campos*, Caxambu, (1988).
33. “Spin Effects and Vector Diquarks:  $\eta_c$  Decay into Baryon-Antibaryon” - F. Caruso, M. Anselmino, S. Forte & B. Pire; in K.J. Heller (Ed.), *AIP Conference Proceedings* 187, Particles and Fields Series **37**, 838-846 (1989).

34. "Results on Weak Decays of Charm Mesons from E691" - E691 Collab. - Les Arcs 1989 - *Proceedings, Electroweak Interactions and Unified Theories*, 255, (1989).
35. "Hadroproduction of Charm and Charm Strange States at FERMILAB E769" - E769 Collab. - *XXIV Rencontre de Moriond, Heavy Flavors*, 375, (1989).
36. "Charmonium Decays and Diquarks" - F. Caruso, M. Anselmino & S. Forte (Torino preprint # DFTT 43/88), in M. Anselmino & E. Predazzi (Eds.), *Proceedings of the Workshop on Diquarks*, World Scientific, Singapore, pp. 113-129 (1989).
37. "Produção de hadrons no modelo de radiação de bola de fogo em colisões  $e^+e^-$ " - I. Bediaga, S. Joffily & E. Predazzi, *Anais do X Encontro Nacional de Física de Partículas e Campos*, Itatiaia, (1989).
38. "Hadroproduction of Charm at FERMILAB E769" - E769 Collab. - Proceedings of XXV International Conference on HEP, Singapore, vl. 2, 1432, (1990).
39. "Recent Results from FERMILAB E769" - E769 Collab. - Les Arcs, 1990 - *Proceedings Z<sup>0</sup> Physics* - 507, (1990).
40. "Inclusive  $e^+e^- \rightarrow hx$  Data with in a Simple Hadronization Scheme" - I. Bediaga & E. Predazzi - *Essays in Honour of J. Tiomno* - Frontier Physics - (1990).
41. "New Results on  $J/\Psi$  Photoproduction from FERMILAB Experiment E691" - E691 Collab. - *Proceedings of APS Meeting*, vol. 35, 4, (1990).
42. "Search for Decays of  $D$  Mesons Involving Multiple  $K_s^0$  s" - E691 Collab. - *Proceeding of the APS Meeting*, vol. 35, 4, (1990).
43. "DELPHI Results on the  $Z^0$  Resonance Parameters through its Hadronic and Leptonic Decay Modes" - P. Abreu *et al.*, DELPHI Collaboration - *XXV International Conference on High Energy Physics*, Singapore, (1990).
44. "A Measurement of the Partial Width of the  $Z^0$  Boson into b Quark Pairs" - P. Abreu *et al.*, DELPHI Collaboration - *XXV International Conference on High Energy Physics*, Singapore, (1990).
45. "Search for Higgs Bosons Using the DELPHI Detector" - P. Abreu *et al.*, DELPHI Collaboration - *XXV International Conference on High Energy Physics*, Singapore, (1990).
46. "Search for Non-Standard  $Z^0$  Decays in Two-Particle Final States" - P. Abreu *et al.*, DELPHI Collaboration - *XXV International Conference on High Energy Physics*, Singapura, (1990).
47. "Can a Scalar-Vector Diquark Transition Improve the QCD Prediction for the  $\eta_c \rightarrow p\bar{p}$  Decay Width?" - F. Caruso, M. Anselmino, S. Joffily & J. Soares - in *Encontro Nacional de Física de Partículas e Campos*, 11.: 1990 setembro 26-30: Caxambu *Anais*, São Paulo, Sociedade Brasileira de Física, pp. 264-268, (1990).

48. "Casimir Energy in Compact and Non-Compact Flat Space-Time" - F. Caruso, N. P. Neto, B. F. Svaiter & N. F. Svaiter - *in Encontro Nacional de Física de Partículas e Campos*, 11.: 1990 setembro 26-30: Caxambu, *Anais*, São Paulo, Sociedade Brasileira de Física, pp. 438-442, (1990).
49. "Feynman-x - Dependence of  $D^\pm$  Production in  $\pi^-$  - Nucleon Interactions" - E691 Collab. - *Proceedings of the 3rd. Tropical Seminar on Heavy Flavours - Nuclear Physics B*. Proceedings Supplements Section, (1991).
50. "Search for Scalar Leptoquarks from  $Z^0$  Decays" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).
51. "Search for Excited Charged Leptons in  $Z^0$  Decays" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).
52. "Interjet Correlations in Hadronic Jets from  $Z^0$  Decays" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).
53. "Bose-Einstein Correlations at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).
54. "A Measurement of the Lifetime of the Tau Lepton" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).
55. "Production of  $K^0$  and  $K^{*\pm}$  in the Hadronic Decays of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).
56. "Charged Multiplicity and Rapidity Distributions in  $Z^0$  Hadronic Decays" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).
57. "Measurement of the Average Lifetime of B Hadrons" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).
58. "Search for Neutral Higgs Particles with Mass Below  $45 \text{ GeV}/c^2$  Produced in  $Z^0$  Decays" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).
59. "Study of Orientation of 3-Jet Events in  $Z^0$  Hadronic Decays Using the DELPHI Detector" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Genebra, (1991).

60. "Charged-Particle Multiplicity Distributions in Restricted Rapidity Intervals in  $Z^0$  Hadronic Decays" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Geneva, (1991).
61. "The reaction  $e^+e^- \rightarrow \gamma\gamma(\gamma)$  at  $Z^0$  energies" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Geneva, (1991).
62. "Study of Final-State Photons in Hadronic  $Z^0$  Decay and Limits on New Phenomena" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Geneva, (1991).
63. "Search for Low-Mass Higgs Bosons produced in  $Z^0$  Decays" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Geneva, (1991).
64. "Charged-Particle Multiplicity of Quarks and Gluon Jets in  $Z^0$  Hadronic Decays" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Geneva, (1991).
65. "Determination of  $Z^0$  Resonance Parameters and Couplings from its Hadronic and Leptonic Decays" - P. Abreu *et al.*, DELPHI Collaboration - *Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics*, Geneva, (1991).
66. "Charm Physics at FERMILAB - E791" - E791 Collab. - *XXVII Rencontres de Moriond - Electroweak Interactions and Unified Theories* - UMS/HEP/92-020, (1992).
67. "FERMILAB E791" - E791 Collab. - *Proceedings of the XXVI International Conference on High Energy Physics*, Dallas, (1992).
68. "Charm Production in 250 GeV/c Hadron-Nucleon Interactions" - E769 Collab. - *Annals of the Vancouver Meeting - Particles and Fields*, 91, D. Axen *et al.*, ed., World Scientific, 690, (1992).
69. "Update on Hadroproduced Charm at TPL" - E769 Collab. - *XXVI Rencontre de Moriond, QCD and High Energy Interactions* - Les Arcs, France - Preprint FERMILAB Conf. 92/174, (1992).
70. "A Study of Beauty and Charm Production at 250GeV  $\pi^+$ -Nucleon Interaction Using Semi-Electronic Decays" - E791 Collab. - *Proceedings of the A.P.S.* - Div. of Particles and Fields, Batavia, (1992).
71. "Risc Architecture Microprocessor Farm for Offline Analysis" - ACP Collab. - *Proceedings of the International Conference on Computing in High Energy Physics*, 467, Annecy, France, (1992).

72. “ $W$  and  $Z$  Decays to Electrons in  $D\bar{0}$ ” -  $D\bar{0}$  Collab. - *Proceedings or the A.P.S.* - Div. of Particles and Fields, Batavia, 1992-FERMILAB-Conf.93/055-E, (1992).
73. “The  $D\bar{0}$  Upgrade Silicon Tracker” -  $D\bar{0}$  Collab. - *Proceedings or the A.P.S.* - Div. of Particles and Fields, Batavia, 1992-FERMILAB-Conf.93/046-E, (1992).
74. “Direct Photon Production from  $D\bar{0}$ ” -  $D\bar{0}$  Collab. - *Proceedings or the A.P.S.* - Div. of Particles and Fields, Batavia, 1992 - FERMILAB-Conf. 93 /044-E, (1992).
75. “The  $e/\pi$  and  $\pi^0/\pi$  Ratios Measured, and Monochromatic  $\gamma$  and  $\pi^0$  Beams Explored in the  $D\bar{0}$  Test Calorimeter” -  $D\bar{0}$  Collab. - FERMILAB-Conf-92/273 (1992) - 3rd. International Conference on Advanced Technology and Particle Physics, Como, Italy, 1992.
76. “ $D\bar{0}$  Triggering and Data Acquisition” -  $D\bar{0}$  Collab. - FERMILAB-Conf-92/303 (1992) - XXVI International Conference on High Energy Physics, Dallas, Texas, 1992.
77. “The  $D\bar{0}$  Monte Carlo” -  $D\bar{0}$  Collab. - FERMILAB-Conf-92/306 (1992) - XXVI International Conference on High Energy Physics, Dallas, Texas, 1992.
78. “Highlights from  $D\bar{0}$ ” -  $D\bar{0}$  Collab. - FERMILAB-Conf-92/365 (1992) - American Physical Society, 1992.
79. “Production of Jets in Association with  $W$  Vector Bosons in the  $D\bar{0}$  Detector” -  $D\bar{0}$  Collab. - *Proceedings of APS 7th Meeting*, FERMILAB Conf-93/042-E, 10-14 nov. (1992).
80. “A Study of  $B^0\bar{B}^0$  Oscillations Using Dileptons from Semileptonic Decay of  $b$  Quark Produced from  $Z^0$ ” - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
81. “A Study of Radiative Muon-Pair Events at  $Z^0$  Energies” - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
82. “High Precision Relative Luminosity Measurement with a Very Small Angle Tagger (VSAT) in DELPHI” - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
83. “A Measurement of  $B$  Meson Production and Lifetime Using  $D\bar{1}$  Events in  $Z^0$  Decays” - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
84. “Neutral Higgs Bosons in a Two Doublet Model” - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
85. “Evidence for  $\Lambda_b$  Productions and Lifetime in  $Z^0$  Hadronic Decays” - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).



86. "Leptonic Events with Energetic Isolated Photons in  $Z^0$  Decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
87. "Refined Measurement of the Average Lifetime of B Hadrons Using High pt Muons" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
88. "A search for  $Z^0 \rightarrow e^+e^-V$ " - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
89. "Interjet Correlations in  $Z^0$  Decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
90. "Production of  $K^0$  and  $\Lambda$  at small  $x$  in the Hadronic Decays of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
91. "Determination of  $\alpha_s$  for b Quarks at the  $Z^0$  Resonance" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
92. "The DELPHI Microvertex Detector" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
93. "A Measurement of the Tau Lifetime" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
94. "A Measurement of the  $B\bar{B}$  Mixing Parameter Using Muons and the Charge of a Jet" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
95. "Search for  $Z^0$  Decays into S-Leptons and Neutralinos Using the DELPHI Detector" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
96. "Measurement of the Forward Backward Asymmetry of  $e^+e^- \rightarrow Z^0 \rightarrow b\bar{b}$  Using Prompt Leptons" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
97. " $B^0$  Tagging at LEP Energies Using  $D$  and Delta Mesons" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
98. "An Update on the Search for Neutral Higgs Particle in  $Z^0$  Decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).

99. "Limits on the Production of Scalar Leptoquarks from  $Z^0$  Decays at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
100. "Measurement of the Charged Particle Multiplicity in Tau Decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
101. "Inclusive Measurement of the Average Lifetime of  $B$ -Hadrons Produced at the  $Z^0$  Peak" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
102. "Determination of  $\alpha_s$  from the Scaling Violation in the Fragmentation Functions of the Process  $e^+e^- \rightarrow h + X$ " - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
103. "Search for an Excited Neutrino Using the DELPHI Detector" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
104. "On the Determination of the Longitudinal Component of the Fragmentation Function of the Process  $e^+e^- \rightarrow h + X$ " - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
105. "Preliminary DELPHI Results on the Z Resonances Parameters and its Electroweak Couplings" - P. Abreu *et al.*, DELPHI Collaboration - *XXVI International Conference on High Energy Physics*, Dallas, (1992).
106. "Vector Diquarks: Bjorken and Gottfried Sum Rules" - F.Caruso, M. Anselmino, V. Barone, E. Predazzi - *in Proceedings of the Adriatico Research Conference on Polarization Dynamics in Nuclear and Particle Physics*, Trieste 7-10 de janeiro, (1992).
107. "Spin and Mass Effects in Charmonium Decays" - F.Caruso, M.Anselmino & F. Murgia - *in Frontiers of High Energy Spin Physics*, Edited by T. Hasegawa, N. Horikawa, A. Masaïke & S. Sawada, Tokyo, *Universal Academic Press and Yamada Science Foundation*, pp. 625-628, (1993).
108. "Search for the Top Quark from  $(e, \mu)$  and  $(e, e)$  Events in the  $D\bar{0}$  Detector in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" -  $D\bar{0}$  Collab. - Presented at the *Rencontres de Physique de la Vallée D'Aoste*, la Thile, Italy, march 7-13 - FERMILAB-Conf.93/143-E (1993).
109. "Search for the Top Quark at  $D\bar{0}$ " -  $D\bar{0}$  Collab. - *Moriond Conference*, Les Arcs, March 24, 1993 - FERMILAB-Conf.93/273-E, (1993).
110. "Search for the Top Quark and Other New Particles at  $D\bar{0}$ " -  $D\bar{0}$  Collab. - *International Conference on Elastic and Diffractive Scattering, Vth Blois Workshop*, Brown University, Providence, Rhode Island, June 8-12, 1993 - FERMILAB-Conf.93/279-E, (1993).

111. "SUSY Searches at DØ" - DØ Collab. - SUSY 93 *International Workshop on Supersymmetry and Unification of Fundamental Interactions*, Boston, MA, March 29-April 1, 1993 - FERMILAB-Conf.93/172-E, (1993).
112. "A Search for Scalar Leptoquarks in DØ" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/045-E, (1993).
113. "Inclusive Jet Cross Sections at the DØ Detector" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/047-E, (1993).
114. "Inclusive Single Muons at DØ" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/048-E, (1993).
115. "A Scintillating Fiber Detector for the DØ Upgrade" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/043-E, (1993).
116. "Electron Identification in the DØ Detector" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/054-E, (1993).
117. "Top Quark Search in DØ from the Lepton + Jets Mode" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/051-E, (1993).
118. "Two Jet Energy and Rapidity Distributions" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/050-E, (1993).
119. "Triggering the DØ Experiment" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/052-E, (1993).
120. "Upgrade DØ Calorimeter Electronics for Short Tevatron Bunch Space and the Effect of Pile-up on the W Mass Measurement" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/053-E, (1993).
121. "Low Energy Response of the DØ Calorimeter and Jet Energy Measurement" - DØ Collab. - *7th Meeting of the American Physical Society Division of Particles and Fields*, FERMILAB, November 10-14, 1992 - FERMILAB-Conf.93/049-E, (1993).
122. "Electroweak Results from DØ" - DØ Collab. - *XXVIIIth Rencontres de Moriond, Electroweak Interactions and Unified Theories*, Les Arcs, Bourg Saint Maurice, March 13-20, 1993 - FERMILAB-Conf.93/127, (1993).

123. "The DØ Software Trigger" - DØ Collab. - *Proceedings of Computing in High Energy Physics*, 1992, Annecy, France, September, 1992 - FERMILAB-Conf.93/308, (1993).
124. "Inclusive Jet and Direct Photon Production at the DØ Experiment" - DØ Collab. - *9th Workshop on Proton-Antiproton Collider Physics*, Tsukuba, Japan, October 18-22, (1993).
125. "Measurement of the  $W$  Mass in the DØ Detector" - DØ Collab. - *9th Workshop on Proton-Antiproton Collider Physics*, Tsukuba, Japan, October 18-22, (1993).
126. "Study of  $B^0 - \bar{B}^0$  Mixing in DØ" - DØ Collab. - *9th Workshop on Proton-Antiproton Collider Physics*, Tsukuba, Japan, October 18-22, (1993).
127. "Recent Results on QCD at the Tevatron (CDF and DØ)" - DØ Collab. - *Proceedings of XIII Particles and Nuclei International Conference*, Perugia, Italy, June 28-July 3, 1993 - FERMILAB - Conf.-93/314-E, (1993).
128. "Search for the Top Quark in the Electron-Electron and Electron-Muon Channels at DØ" - DØ Collab. - *9th Topical Workshop on Proton-Antiproton Collider Physics*, Tsukuba, Japan, October 18-22, 1993 - FERMILAB- Conf. 93/385-E, (1993).
129. "Search for Supersymmetry and Leptoquark States in DØ" - *9th Topical Workshop on Proton-Antiproton Collider Physics*, Tsukuba, Japan, October 18-22, 1993 - FERMILAB - Conf. 94/036-E, (1993).
130. "Measurements of the lineshape of the  $Z^0$  and determination of electroweak parameters from its hadronic and leptonic decays" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July, (1993).
131. "A study of radiative muon-pair events at  $Z^0$  energies" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July, (1993).
132. "Update of the DELPHI tau lifetime measurements" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July, (1993).
133. "Measurements of the tau polarization in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July, (1993).
134. "Measurement of the branching ratio of the Cabibbo suppressed decay  $\tau \rightarrow K\nu$ " - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July, (1993).
135. "Measurement of  $\tau \rightarrow 3\pi\nu_\tau$  branching ratio and  $P_\tau$  with the DELPHI detector" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).

136. "A study of Kaon production in Tau decays with the *DELPHI* detector at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
137. "Search for the standard model Higgs boson in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
138. "A search for a high mass resonance in photonic final states" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
139. "An update of the study of  $Z^0$  decays to two leptons and a charged particle-antiparticle pair" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
140. "Invariant mass dependence of particle correlations in hadronic final states from the decay of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
141. "Determination of  $\Gamma_{b\bar{b}}$  and  $\text{BR}(b \rightarrow l)$  using semi-leptonic decays" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
142. "Measurement of the  $Z^0 \rightarrow b\bar{b}$  branching ratio by hemisphere double tagging" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
143. "Influence on the Bose-Einstein effect by decaying long-lived states" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
144. "Measurement of the forward-backward asymmetry of  $e^+e^- \rightarrow Z^0 \rightarrow b\bar{b}$  using prompt muons" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
145. "Inclusive measurement of the forward-backward asymmetry in  $Z \rightarrow b\bar{b}$  events at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
146. "Measurement of the  $B^0 - \bar{B}^0$  oscillation strength using the average electric charge of hadron-jets in lepton-tagged  $Z^0$  decays into bottom-quarks" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
147. "Update of the measurement of  $B^0 - \bar{B}^0$  mixing parameters in DELPHI" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).

148. "A measurement of the  $B_d^0$  oscillation frequency using the time evolution" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
149. "Note on DELPHI measurements of the B-hadrons lifetime" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
150. "An update to the measurement of the average lifetime of B hadrons from  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
151. "A measurement of B-hadron lifetimes using secondary vertices in hadronic events at DELPHI" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
152. "Inclusive J/Psi production in  $Z^0$  hadronic decays with DELPHI" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
153. "Production rate and decay lifetime measurements of  $B_s^0$  mesons at LEP using  $D_s$  and phi mesons" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
154. "Measurement of  $B_s^0$  meson lifetime" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
155. "Measurement of beauty baryons production and lifetime in  $Z^0$  hadronic decays using 1990-92 data" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
156. "Study of hard scattering processes in multihadronic  $\gamma\gamma$  collisions at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
157. "First evidence of hard scattering processes in very low  $Q^2$  single tagged  $\gamma\gamma$  collisions using the DELPHI VSAT detector" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
158. "Measurement of  $\Gamma_{b\bar{b}}/\Gamma_{had}$  using microvertex and lepton double tags" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
159. "An update to the measurement of the lifetimes of charged and neutral B-hadrons" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
160. "Search for strange-B baryon production at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).

161. "Determination of the semi-leptonic branching ratio of the b quark using single and di-lepton events" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
162. "Limits on the production of scalar leptoquarks from  $Z^0$  decays at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
163. "A search for radiative rare B decays with the DELPHI detector at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
164. "Study of  $\tau\tau\gamma$  events using the DELPHI detector at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
165. "DELPHI data on electroweak parameters for the Marseille and Cornell Conferences 1993" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
166. "Four jet events with long-lived particles" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
167. "Measurement of the 1992 tau-lepton cross-section and charge asymmetry" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
168. "Summary of tau branching ratios submitted to Summer conferences 1993" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
169. "Recent results of the forward ring imaging Cherenkov detector of DELPHI" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
170. "A measurement of the  $B_s^0$  meson mass" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
171. "First measurement of  $B^0 - \bar{B}^0$  Mixing using Lambda Lepton correlations" - P. Abreu *et al.*, DELPHI Collaboration - *European Conference on High Energy Physics*, Marseille (France), July (1993).
172. "Single Diffractive Process in  $\pi^+p$  and  $K^+p$  interactions at  $250 \text{ GeV}/c$ " - E. C. de Oliveira, *IV Reunião de Trabalho sobre Interações Hadrônicas*, BPF, Rio de Janeiro, abril de (1993).
173. "Charge and Strangeness Flow in Diffractive Dissociation of Mesons  $\pi^+$  and  $K^+$  at  $250 \text{ GeV}/c$ " - E. C. de Oliveira, EHS/NA22 Colaboration - *XIII ENFPC*, Caxambu, MG. (1993).

174. "Search for exclusive decay channels of the  $\Lambda_b^0$  baryon with DELPHI" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
175. "Inclusive  $K^\pm$  and  $p/\bar{p}$  production in  $Z^0$  decays measured with the DELPHI Detector" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
176. "A study of radiative muon-pair events at  $Z^0$  energies, and limits on an additional  $Z'$  gauge boson" - P. Abreu *et al.*, DELPHI Collaboration, *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
177. "Search for pair-produced heavy scalars in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
178. "Charged Kaon production in Tau decays at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
179. " $J/\Psi$  Production in the Hadronic Decays of the Z" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
180. "First evidence of hard scattering processes in single tagged  $\gamma\gamma$  collisions" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
181. "Production characteristics of  $K^0$  and light meson resonances in hadronic decays of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
182. "Measurement of the  $\Gamma_{b\bar{b}}/\Gamma_{had}$  branching ratio of the Z by double hemisphere tagging" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
183. "Measurement of the forward-backward asymmetry of  $e^+e^- \rightarrow Z \rightarrow b\bar{b}$  using leptons and lifetime tag" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
184. "Measurement of the mean charged multiplicity in  $Z^0 \rightarrow b\bar{b}$  events" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
185. "Measurement of the triple-gluon vertex from 4-Jet events at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).



186. “ $Z^0$  decays to two leptons and a charged particle- antiparticle pair” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
187. “Study of multihadronic production in  $\gamma\gamma$  collisions at DELPHI” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
188. “A study of single tagged multihadronic  $\gamma\gamma^*$  events at a  $\langle Q^2 \rangle \simeq 90 \text{ GeV}^2$ ” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
189. “A measurement of the photon structure function  $F_2^\gamma(x)$  at an average  $Q^2$  of  $12 \text{ GeV}^2$ ” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
190. “A study of differences in quark and gluon jet fragmentation” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
191. “Excited Beauty at DELPHI” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
192. “Measurement of exclusive  $\pi^0$  production in  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
193. “Study of prompt photon production in hadronic  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
194. “Strange baryons production in  $Z^0$  hadronic decays” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
195. “Preliminary results on the search for  $l^+l^-\gamma\gamma$ ,  $\nu\bar{\nu}\gamma\gamma$  and  $q\bar{q}\gamma\gamma$  events in 1993” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
196. “Update on the search for the Standard Model Higgs boson” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
197. “Search for long lived neutral heavy particles using the DELPHI Detector at LEP” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
198. “The DELPHI silicon strip microvertex detector with double sided readout” - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).

199. "A study of  $\tau\tau\gamma$  events using the DELPHI detector at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
200. "New measurement of  $\Gamma_{b\bar{b}}/\Gamma_{had}$  with lifetime tag technique" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
201. "Measurement of  $\Gamma_{b\bar{b}}/\Gamma_{had}$  using micro-vertex and lepton tags" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
202. "New measurement of  $\Gamma_{b\bar{b}}/\Gamma_{had}$  branching ratio of the Z minimal model dependence" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
203. "Production of charged particles,  $K_s^0$ ,  $K^\pm$ ,  $p$  and  $\Lambda$  in  $Z^0 \rightarrow b\bar{b}$  events and in the decay of B hadrons" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
204. "Measurement of the forward-backward asymmetry of charm and bottom quarks at the Z pole using  $D^{*\pm}$  mesons" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
205. "First measurement of the strange quark asymmetry at the  $Z^0$  pole" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
206. "A topological measurement of the lifetimes of charged and neutral B hadrons" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
207. "Measurement of the production of  $\Xi l$  pairs in jets at LEP and interpretation of their origin in terms of strange-beauty baryon decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
208. "Measurement of time dependent  $B_d^0-\bar{B}_d^0$  mixing" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
209. "New measurements of time dependent  $B_d^0-\bar{B}_d^0$  mixing with  $D^*$ -hemisphere charge correlations" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
210. "Study of  $D$ ,  $D^*$ , and  $D^{**}$  production in  $Z^0$  hadronic decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).

211. "Search for exclusive charmless  $B$  meson decays with the DELPHI detector at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
212. "Investigation of the splitting of quark and gluon jets" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
213. "Measurement of the forward-backward asymmetry of  $e^+e^- \rightarrow Z \rightarrow b\bar{b}$  using prompt leptons" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
214. "Experience with the Ring Imaging Cherenkov Detector at DELPHI" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
215. "DELPHI results on electroweak physics with quarks contributed to the Glasgow conference" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
216. "Analysis techniques for the DELPHI Ring Imaging Cherenkov Detector" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
217. "Precision determination of the  $Z^0$  resonance parameters" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
218. "Search for monojet events using the DELPHI detector at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
219. "Measurement of  $B_s$  lifetime using  $D_s$ -lepton and inclusive  $D_s$  samples" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
220. "Lifetime and production rate of beauty baryon from  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
221. "Measurement of the  $B_d^0$  oscillation frequency using kaons, leptons and jet charge" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
222. "A search for the  $Z^0$  decay into a Higgs boson and a photon with the DELPHI detector" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).

223. "Summary of  $\tau$  branching ratio results from DELPHI for Glasgow94" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
224. "Measurements of the  $\tau$  polarisation in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
225. "Improved measurements of cross sections and asymmetries at the  $Z^0$  resonance" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
226. "Measurement of the  $e^+e^- \rightarrow \gamma\gamma(\gamma)$  cross section at LEP energies" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
227. "A measurement of the  $B_s^0$  meson mass" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
228. "A precision measurement of the average lifetime of  $B$  hadrons" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
229. "Measurement of the  $B^0$ - $\bar{B}^0$  mixing parameter in DELPHI" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
230. "Search for the Standard Model Higgs boson in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
231. "Invariant mass dependence of particle correlations in hadronic final states from the decay of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
232. "Interference of neutral Kaons in the hadronic decays of the  $Z^0$ " - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
233. "Study of hard scattering processes in multihadron production from  $\gamma\gamma$  collisions at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
234. "Search for pair produced neutral Higgs bosons using  $b$  tagging" - P. Abreu *et al.*, DELPHI Collaboration - *XXVII International Conference on High Energy Physics*, Glasgow, U.K., (1994).
235. "H-712. First test of E781 photon calorimeter readout" - V. Steiner, E. C. de Oliveira *et al.* - E781/Fermilab. (1994).

236. "H-702. Classical mirror tests and the E781 RICH" - E781/Fermilab. J. Lach and E. C. de Oliveira, (1994).
237. "Photon Production at CDF and DØ" - DØ Collab. - *XXIXth Rencontre de Moriond*, Meribel, France, March 19-26, 1994 - FERMILAB - Conf. 94/101-E, (1994).
238. "Search for Top Quark: Results from the DØ Experiment" - DØ Collab. - Proceedings of the 27th International Conference on High Energy Physics, Glasgow, Scotland, 1994 - FERMILAB-Pub-94/277 (1994).
239. "Inclusive  $B$  Production at CDF and DØ" DØ Collab. - XXIXth Rencontre de Moriond on QCD and High Energy Hadronic Interactions, Savie, France, 1994 - FERMILAB-Pub-94/300-E (1994).
240. "Search for Top Quark in DØ using the Electron + Jets Channel with Soft  $\mu$  Tagging" - DØ Collab. - Proceedings of the 27th International Conference on High Energy Physics, Glasgow, Scotland, 1994 - FERMILAB-Pub-94/327-E (1994).
241. "Modeling Higher Twist Contributions to Deep Inelastic Scattering with Diquarks" - F. Caruso, M. Anselmino, J. R. T. de Mello Neto, A. Penna Firme & J. Soares - in *Proceedings of the XV Brazilian National Meeting on Particles and Fields* - Angra dos Reis, SBF, pp. 177-180, 4 a 8 de outubro, (1994).
242. "Current Issues in Open Charm Hadroproduction and New Preliminary Results from FERMILAB E769" - E769 Collab - *LISHEP95 LAFEX International School on High Energy Physics*, Rio de Janeiro, Brasil, Feb. 6-22, 1995 - FERMILAB - Conf-95/053-E, (1995).
243. "W/Z + Jets Production at the Tevatron  $p\bar{p}$  Collider" - CDF and DØ Collab. - *Proceedings XXXth Rencontres de Moriond, QCD and High Energy Interactions*, Les Arcs, France, 19-26 mar. 1995 - FERMILAB - Conf-95/146-E, (1995).
244. "Photon Production at CDF and DØ" - CDF and DØ Collab. - *Proceedings 10th Topical Workshop on Proton-Antiproton Collider Physics*, FERMILAB, Batavia, Illinois, 9-13 mai. 1995 - FERMILAB Conf-95/174-E, (1995).
245. "Results on Soft Gluon Resummation and Color Coherence in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ and CDF Collab. - *Proceedings 10th Topical Workshop on Proton-Antiproton Collider Physics*, FERMILAB, Batavia, Illinois, 9-13 mai. 1995 - FERMILAB Conf-95/181-E, (1995).
246. "Tests of Proton Structure Functions Using Leptons at CDF and DØ: W Charge Asymmetry and Drell-Yan Production" - CDF and DØ Collab. - *Proceedings 10th Topical Workshop on Proton-Antiproton Collider Physics*, FERMILAB, Batavia, Illinois, 9-13 mai. (1995).
247. "Electroweak Measurements from CDF and DØ" - DØ Collab. - *Europhysics Conference*, Brussels, Belgium, July 1995 - FERMILAB - Conf-96/153-E, (1995).

248. "Search for First and Second Generation Leptoquarks at DØ" - DØ Collab. - *International Europhysics Conference on High Energy Physics (HEP95)*, Brussels, Belgique, July 27 to Aug. 2, 1995 - FERMILAB - Conf-95/184-E, (1995).
249. "Inclusive Jet Production at Tevatron" - CDF and DØ Collab. - *Proceedings 10th Topical Workshop on Proton-Antiproton Collider Physics*, FERMILAB, Batavia, Illinois, 9-13 mai. 1995 - FERMILAB Conf-95/192-E, (1995).
250. "Search for Squarks and Gluions in  $p\bar{p}$  Collisions at the DØ Detector" - DØ Collab. - *International Europhysics Conference on High Energy Physics (HEP95)*, Brussels, Belgique, July 27 to Aug. 2, 1995 - FERMILAB - Conf-95/193-E, (1995).
251. "Rapidity Gaps Between Jets at DØ and CDF" - *Proceedings 10th Topical Workshop on Proton-Antiproton Collider Physics*, FERMILAB, Batavia, Illinois, 9-13 mai. 1995 - FERMILAB Conf-95/198-E, (1995).
252. "Measurement of the  $\Gamma$  Cross Section at DØ Using Dimuons" - DØ Collab. - *International Europhysics Conference on High Energy Physics (HEP95)*, Brussels, Belgique, July 27 to Aug. 2, 1995 - FERMILAB - Conf-95/206-E, (1995).
253. "Inclusive Dimuon and b-quark Production Cross Sections in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - *International Europhysics Conference on High Energy Physics (HEP95)*, Brussels, Belgique, July 27 to Aug. 2, 1995 - FERMILAB - Conf-95/207-E, (1995).
254. "Search for New Gauge Bosons Using the DØ Detector" - DØ Collab. - *International Europhysics Conference on High Energy Physics (HEP95)*, Brussels, Belgique, July 27 to Aug. 2, 1995 - FERMILAB - Conf-95/210-E, (1995).
255. "Single Photon, Photon-jet and Diphoton Production at DØ" - DØ Collab. - *International Europhysics Conference on High Energy Physics (HEP95)*, Brussels, Belgique, July 27 to Aug. 2, - FERMILAB - Conf-95/215-E, (1995).
256. "Rapidity Correlations Between High  $p_T$  Intermediate Vector Bosons and Jets in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - *International Europhysics Conference on High Energy Physics (HEP95)*, Brussels, Belgique, July 27 to Aug. 2, 1995 - FERMILAB - Conf-95/218-E, (1995).
257. "Limits on the Anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  Couplings in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV" - DØ Collab. - *International Europhysics Conference on High Energy Physics (HEP95)*, Brussels, Belgique, July 27 to Aug. 2, 1995 - FERMILAB - Conf-95/249-E, (1995).
258. "Tests of QCD in W and Z Production at Tevatron" - DØ Collab. - *in International Europhysics Conference on High Energy Physics (HEP95)*, Brussels, Belgique, July 27 to Aug. 2, 1995 and *17th International Symposium on Lepton-Photon Interactions (LP95)*, Beijing, China, 10-15 Aug., 1995 - FERMILAB - Conf-95/259-E, (1995)

259. "Hard diffraction and Rapidity Gaps" - DØ Collab. - *15th International Conference on Physics in Collisions*, Cravow, Poland, June 8-10, 1995 - FERMILAB - Conf-95/299-E, (1995).
260. "Electroweak Results from the Tevatron" - CDF and DØ Collab. - *XV International conference on Physics in Collision*, Cracow, Poland, June 8-10, 1995 - FERMILAB - Conf-95/347-E, (1995).
261. *Object Based Data Access at the DØ Experiment* - DØ Collab. - *Computing in High Energy Physics (CHEP95)*, Rio de Janeiro, Brazil, September 18-22, 1995 - FERMILAB - Conf-95/357-E, (1995).
262. "Limits on New Particle Production in  $p\bar{p}$  Collisions from DØ" - DØ Collab. - *1995 International Europhysics Conference on High Energy Physics*, Brussels, Belgium, July 27-August 2, 1995 - FERMILAB - Conf-95/387-E, (1995).
263. "Search for New Physics with the DØ Detector" - DØ Collab. - *10th International Workshop on High Energy Physics and Quantum Field Theory*, Zvenigorod, Russia, September 20-26, 1995 - FERMILAB - Conf-95/393-E, (1995).
264. "Top Quark Physics at the DØ Experiment" - DØ Collab. - *10th International Workshop on High Energy Physics and Quantum Field Theory*, Zvenigorod, Russia, September 20-26, 1995 - FERMILAB - Conf-96/009-E, (1995).
265. "The Top Quark and More: Some Highlights of Physics from the DØ Experiment" - DØ Collab. - *XVI Encontro Nacional de Física de Partículas e Campos*, Caxambu, MG, Brazil, October 24-28, 1995 - FERMILAB - Conf-96/043-E, (1995).
266. "A study of radiative muon-pair events at  $Z^0$  energies with the DELPHI detector" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
267. "Precision determination of the  $Z^0$  resonance parameters" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
268. "First evidence of transverse spin correlations in  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
269. "Performance of the new high precision luminosity monitor of DELPHI at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
270. "Study of prompt photon production in hadronic  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).

271. “Study of charm mesons production in  $Z^0$  decays and measurement of  $\Gamma_c/\Gamma_h$  ” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
272. “Search for charmless decays of B hadrons with the DELPHI detector at LEP” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
273. “Determination of  $|V_{cb}|$  from the semileptonic decay  $B \rightarrow D^{*-} l^+ \nu$  ” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
274. “Measurement of the partial decay width  $R_b = \Gamma_{b\bar{b}}/\Gamma_{had}$  with the DELPHI detector at LEP” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
275. “Measurement of the forward-backward asymmetries of  $e^+e^- \rightarrow Z \rightarrow b\bar{b}$  and  $e^+e^- \rightarrow Z \rightarrow c\bar{c}$  ” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
276. “Measurement of the  $s\bar{s}$  forward-backward asymmetry with the DELPHI detector at LEP” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
277. “Inclusive measurements of the  $K^\pm$  and  $p/\bar{p}$  production in hadronic  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
278. “Measurement of inclusive  $\pi^0$  production in hadronic  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
279. “Measurement of  $\Delta^{++}(1232)$  production in hadronic  $Z$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
280. “Inclusive production of the  $\Phi(1020)$  in the  $Z$  hadronic decays at LEP” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
281. “A measurement of the photon structure function  $F_2^\gamma$  at an average  $Q^2$  of 12  $\text{GeV}^2/c^4$ ” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
282. “Improved measurement of the oscillation frequencies of  $B^0$  mesons” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).



283. “Test of CP-violation in  $e^+e^- \rightarrow Z^0 \rightarrow \tau^+\tau^-$ ” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
284. “Inclusive measurement of the  $b$  fragmentation function” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
285. “Updated precision measurement of the average lifetime of  $B$  hadrons” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
286. “Update of the Standard Model Higgs boson search” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
287. “Search for a high mass resonance in  $l^+l^-\gamma\gamma$ ,  $\nu\bar{\nu}\gamma\gamma$  and  $q\bar{q}\gamma\gamma$  events” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
288. “An updated analysis of the  $e^+e^- \rightarrow \gamma\gamma(\gamma)$  reaction at LEP energies” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
289. “Search for lepton flavour number violating  $Z^0$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
290. “Update to the search for the  $Z^0$  decay into a Higgs boson and a photon” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
291. “Search for new phenomena using single photon events in the DELPHI detector at LEP” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
292. “Search for monojets and isosinglet neutral heavy leptons” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
293. “Strange baryon production in  $Z$  hadronic decays” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
294. “Search for promptly produced heavy quarkonium states in hadronic  $Z$  decays” - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).

295. "Measurement of the quark and gluon fragmentation functions of the process  $e^+e^- \rightarrow h + X$  from DELPHI data" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
296. "Energy dependence of the differences between the quark and gluon jet fragmentation" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
297. "Tuning and test fragmentation models based on identified particles and precision event shape data" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
298. "Measurement of the triple gluon vertex from double quark tagged 4-jet events" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
299. "Scaling violation in  $e^+e^-$  annihilation" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
300. "Multiparton angular correlations in  $e^+e^-$  interactions" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
301. "An upper limit for  $\text{Br}(Z^0 \rightarrow ggg)$  from symmetric 3-jet  $Z^0$  hadronic decays" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
302. "Production of  $\Sigma^0$  and  $\Omega^-$  in  $Z$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
303. "  $B_s^0$  meson lifetime " - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
304. "Search for exclusive hadronic decays of the  $\Lambda_b$  baryon with the DELPHI detector at LEP" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
305. " $B^*$  production in  $Z$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
306. "Observation of orbitally excited  $B$  and  $B_s$  mesons" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
307. "Beauty-baryons production properties and lifetimes" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).

308. "First evidence for  $\Sigma_b$  and  $\Sigma_b^*$  baryons" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
309. "Observation of short range three-particle correlations in  $e^+e^-$  annihilations at LEP energies" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
310. "Kaon interference in the hadronic decays of the Z" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
311. "A measurement of quark spin correlations in hadronic  $Z^0$  decays" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
312. "The DELPHI silicon strip microvertex detector with double sided readout" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
313. "Performance of the DELPHI detector" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
314. "A precise measurement of the  $\tau$  lifetime" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
315. "Summary of  $\tau$  branching ratio results" - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
316. "Upper limits on the branching ratios  $\tau \rightarrow \mu\gamma$  and  $\tau \rightarrow e\gamma$ " - P. Abreu *et al.*, DELPHI Collaboration - *International Europhysics Conference on High Energy Physics*, Brussels, Belgium, (1995).
317. "Studies of the Top Quark with the DØ Detector" - DØ Collab. - *Ind Rencontres du Vietnam*, Minh City (Saigon), Vietnam, October 21-28, 1995 - FERMILAB - Conf-96/018-E, (1995).
318. "Diquark and Higher Twist Effects: Recent Results", *in* - F. Caruso, V.C. Aguilara-Navarro, D. Galetti, B.M. Pimentel & L. Tomio (Eds.), *Topics in Theoretical Physics: Festschrift for Paulo Leal Ferreira*, São Paulo, Editora IFT, 1995, pp. 66-77 *Proceedings of the Theoretical Physics Symposium in honor of Paulo Leal Ferreira*, held in São Paulo from 7 to 11 August, (1995).
319. "H-763. E781 Hyperon Target Magnet Field Map. E781/Fermilab" - J. Lach and E. C. de Oliveira (1995).

320. “Electroweak Measurements from the Tevatron” - DØ Collab. - *Les Rencontres de Physique de La Vallee D’Aoste*, La Thuile, Italy, March 3-9, 1996 - FERMILAB - Conf-96/143-E, (1996).
321. “Onia and Heavy Flavor-Production at the Tevatron Collider” - DØ Collab. - *Les Rencontres de Physique de La Vallee D’Aoste, La Thuile*, Italy, March 3-9, 1996 - FERMILAB - Conf-96/110-E, (1996).
322. “Jet Decorrelation and Jet Shapes at the Tevatron” - DØ Collab. - *Les Rencontres de Physique de La Vallee D’Aoste*, La Thuile, Italy, March 3-9, 1996 - FERMILAB - Conf-96/162-E, (1996).
323. “Future Top Physics at the Tevatron and LHC” - DØ Collab. - *XXXIst Rencontres de Moriond, QCD and High Energy Hadronic Interactions*, Les Arcs, Savoie, France, March 23-30, 1996 - FERMILAB - Conf-96/116-E, (1996).
324. “Electro weak Results from DØ ” - DØ Collab. - *XXXIst Rencontres de Moriond, QCD and High Energy Hadronic Interactions*, Les Arcs, Savoie, France, March 23-30, 1996 - FERMILAB - Conf-96/149-E, (1996).
325. “DØ Top Analyses: Recent Results on the Properties of the Sixth Quark” - DØ Collab. - *XXXIst Rencontres de Moriond*, Electroweak Session, Les Arcs, Savoie, France, March 23-30, 1996 - FERMILAB - Conf-96/151-E, (1996).
326. “New Particle Searches at the Tevatron (I)” - DØ Collab. - *XXXIst Rencontres de Moriond, QCD and High Energy Hadronic Interactions*, Les Arcs, Savoie, France, March 23-30, 1996 - FERMILAB - Conf-96/114-E, (1996).
327. “Preliminary Measurement of the Inclusive Jet and Dijet Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV” - DØ Collab. - *XXXIst Rencontres de Moriond, QCD and High Energy Hadronic Interactions*, Les Arcs, Savoie, France, March 23-30, 1996 - FERMILAB - Conf-96/132-E, (1996).
328. “New Particle Searches at Tevatron (II)” - DØ Collab. - *XXXIst Rencontres de Moriond, QCD and High Energy Hadronic Interactions*, Les Arcs, Savoie, France, March 23-30, 1996 - FERMILAB - Conf-96/106-E, (1996).
329. “Rapidity Gaps in Jet Events at DØ” - DØ Collab. - *XI Topical Workshop on Proton-Antiproton Collider Physics* - Abano Terme, Italy, May 26-June 1, 1996 - FERMILAB - Conf-96/185-E, (1996).
330. “Multijet Production at DØ” - DØ Collab. - *XI Topical Workshop on Proton-Antiproton Collider Physics* - Abano Terme, Italy, May 26-June 1, 1996 - FERMILAB - Conf-96/182-E, (1996).
331. “The Inclusive Jet Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV” - DØ Collab. - *XI Topical Workshop on Proton-Antiproton Collider Physics* - Abano Terme, Italy, May 26-June 1, 1996 - FERMILAB - Conf-96/174-E, (1996).

332. “Search for a Fourth Generation Charge - 1/3 Quark via Flavor Changing Neutral Currents” - DØ Collab. - *28th International Conference on High Energy Physics*, Warsaw, Poland, July 25-31, 1996 - FERMILAB - Conf-96/163-E, (1996).
333. “Direct Photon Measurements by the DØ Experiment” - DØ Collab. - *28th International Conference on High Energy Physics*, Warsaw, Poland, July 25-31, 1996 - FERMILAB - Conf-96/183-E, (1996).
334. “Rapidity Gaps Between Jets at DØ” - DØ Collab. - *28th International Conference on High Energy Physics*, Warsaw, Poland, July 25-31, 1996 - FERMILAB - Conf-96/178-E, (1996).
335. “A Measurement of the Ratio of  $W^+$  Jet to  $W^0$  Jets Cross Sections and Comparisons to QCD” - DØ Collab. - *28th International Conference on High Energy Physics*, Warsaw, Poland, July 25-31, 1996 - FERMILAB - Conf-96/172-E, (1996).
336. “The Dijet Mass Spectrum and Angular Distributions with the DØ Detector” - DØ Collab. - *28th International Conference on High Energy Physics*, Warsaw, Poland, July 25-31, 1996 - FERMILAB - Conf-96/168-E, (1996).
337. “Summary of the Performance Working Group at the 34th Eloisatron Work - Proceedings fo the 34th Eloisatron Workshop, Erice, Italy, 1996 - Large Hadron Collider Project and LHC Project Report 88.
338. “Measurement of  $\tau$  Branching Fractions” - M. E. Pol - *Meeting of the American Physics Society*, DPF96, Minneapolis, USA, 1996.
339. “Selected Topics on DØ Physics” - J. M de Miranda - XVII Brazilian National Meeting on Particles and Fields, Serra Negra, Brasil, 1996.
340. “Kinematical Dependence of NLO corrections to semi-inclusive spin” - D. de Florian, C A. Garcia Canal, S. Joffily & R. Sassot, Proceedings of the Spin96 Conference, Singapore, Wolrd Scientific (1996).
341. “A Client/Server Scheme for Parallel Execution at Remote Sites with Reliable Data Transfer over the Internet” - G. Alves, M. Joffily, M. Miranda, A. Santoro & M. Souza - to be published in the Proceedings of CHEP97 - Computing on High Energy Physics, Berlin, 1997.
342. “The LAFEX Risc Based Farm Solution for CPU Intensive Applications in HEP” - G. Alves, M. Joffily, M. Miranda, A. Santoro & M. Souza - to be published in the Proceedings of CHEP97 - Computing on High Energy Physics, Berlin, 1997.

## 2.5 Artigos Didáticos, de Divulgação e de Política Acadêmico-Científica

1. “A Matéria Indivisível” - R. C. Shellard & J. A. Mignaco - *Ciência Hoje*, **3**, nº14, pg. 42 (1984).

2. “O próton revela sua estrutura” - J. Anjos - *Ciência Hoje*, **12**, 68, (1990).
3. “Science and Technology in Brazil: Where are we heading for?” - F. Caruso - *Ciência e Cultura*, **43** (6), 406 (1991).
4. “Física das Altas Energias: Há Espaço para o Brasil?” - R. C. Shellard - *Ciência Hoje*, **13**, número 74, pg. 26-35, Julho, (1991).
5. “Em defesa da Licenciatura” - F. Caruso - *Scientia*, **6** (1) pp. 93-98 (1995).
6. “Do Elétron ao Quark Top: Como Ver uma Partícula Elementar” - G. Alves, A. Santoro & M. Souza - *Ciência Hoje* **19** (13) pp. 34-42 (1995).
7. “A Física Experimental de Altas Energias e sua Importância para a Economia: Para não dizer que não falei de flores” - A. Santoro, a ser publicado nos *Proceedings LISHEP95-LAFEX International School on High Energy Physics*, 6-22 Feb. (1995).
8. “Enrico Predazzi: 25 anos colaborando com o Brasil” - I. Bediaga & F. Caruso - *Revista Brasileira de Ensino de Física*, **18** (1) pp. 24-29 (1996).

## 2.6 Publicações na série Ciência e Sociedade do CBPF

1. “Reflexões sobre Ciência, Tecnologia e o papel da Universidade em um País em Desenvolvimento” - F. Caruso - *Ciência e Sociedade*, CS-001/91, Rio de Janeiro, (1991).
2. “Possíveis Contribuições da Física de Altas Energias à Integração e Desenvolvimento do País” - A. Santoro - *Ciência e Sociedade*, CS-003/93, Rio de Janeiro, (1993).
3. “Large and Small Science” - A. Santoro - *Ciência e Sociedade* - CBPF-CS-004/94 (1994).
4. “Em Defesa da Licenciatura” - F. Caruso - *Ciência e Sociedade* - CS-005/95, (1995).
5. “Universidade e Educação Básica: uma nota sobre uma vocação adormecida” - F. Caruso - *Ciência e Sociedade*, CS-011/95, setembro, (1995).
6. “Enrico Predazzi: 25 anos colaborando com o Brasil” - I. Bediaga & F. Caruso - *Ciência e Sociedade*, CS-013/95, outubro, (1995).
7. “Trote e valores acadêmicos: uma antinomia dos tempos modernos” - F. Caruso - *Ciência e Sociedade*, CS-003/96, março, (1996).
8. “Processo e Transformação: para além da Ciência” - F. Caruso - *Ciência e Sociedade*, CS-007/96, maio, (1996).
9. “A Eterna Busca do Indivisível: do Átomo Filosófico aos Quarks e Léptons” - F. Caruso & Vitor Oguri - *Ciência e Sociedade*, CS-008/96, maio, (1996).

## 2.7 Notas Técnicas e Relatórios não publicados

1. “Phenomenologie - Poles de Regge - Dualité - J. Anjos, A. Santoro & M. Souza - Rapport de Stage - CEN/Saclay - France (1970).
2. “Uso dos Dados da Biblioteca Yftah no Código 1DX” - F. Eidelman, E. C. de Oliveira - IEN/NT 010/77 (1977).
3. “Determinação das Concentrações para o Cálculo Neutrônico de uma Célula de Reator” - H. F. B. N. Bastos, E. C. de Oliveira, J. Soto - IEN/NT 005/77 (1977).
4. “Análise de Sensitividade da Seção de Choque do U em Sistemas Nucleares Térmicos” - E. S. Amorim, A. B. D’Oliveira, E. C. de Oliveira - EAV/NT 017/80 (1980).
5. “Sobre os Esquemas de Cálculo Neutrônico do ANL via ETOE/MC2-2 do LASL via MINX/NJOY e seu Uso para Cálculos de Reatores Rápidos” - E. S. Amorim, A. B. D’Oliveira, E. C. de Oliveira - EAV/NT 018/80 (1980).
6. “Análise de Sensitividade da Seção de Choque do U em Sistemas Nucleares Rápidos, SENSEAV-R” - E. S. Amorim, A. B. D’Oliveira, E.C. de Oliveira - RPEAV/023-EN/80. II ENFR, Itaipava, RJ, (1981).
7. “Sur une théorie de transfer resonant pour les diffusions d’ions lourds: application aux cas des reactions  $^{17}O(^{16}O,^{16}O)^{17}O$  (g.s. et  $0.871 s_{1/2}$ )” - F. Becker, S. Joffily & G. Baron, Rapport d’Activité - CRN 82-01 (1982).
8. H-702. “Classical mirror tests and the E781 RICH”. E781/Fermilab - J. Lach and E. C. de Oliveira (1994).
9. H-712. “First test of E781 photon calorimeter readout”. - V. Steiner et al. E781/Fermilab (1994).
10. H-763. “E781 Hyperon Target Magnet Field Map”. E781/Fermilab - J. Lach and E. C. de Oliveira (1995).
11. “Diffraction Dissociation of Nuclei in  $\pi^+/k^+p$  Collisions with *Au* and *Al* at 250 GeV/c” - E. C. de Oliveira, EHS/NA22 Collaboration - HEN-73 January (1995).
12. “MAILBOOK: An email address handling tool” - M. Joffily, A. Nigri, M. Miranda & A. Santoro - CBPF-NT-006/95 - CHEP95: *Computing on High Energy Physics*, Rio de Janeiro, 1995. Proceedings, Singapore, World Scientific, p. 592.
13. “A First Use of a Tracking in DØ Upgrade Detector” - H. da Motta, A. Santoro & S. Yepes - DØ Note 2893 (1996).

## 2.8 Artigos em Jornais

1. “Ciência, Tecnologia e a Universidade” - F. Caruso - UERJ em *Questão*, Rio de Janeiro, Ano III, No. 1, abril de 1991, Seção Opinião, p. 7, (1991).
2. “(...) e derrota da Ciência nas Bolsas?” - F. Caruso - carta publicada no *Jornal da Ciência Hoje*, Ano IX, N<sup>o</sup> 303, p. 1, de 5 de agosto de 1994.
3. “A Atual Política de Bolsas de Pós-Graduação: Crônica de uma Morte Anunciada” - F. Caruso - artigo publicado em duas partes: *Nação Brasil*, Ano I, N<sup>o</sup> 32, p. 14, de 26 de setembro de 1994, Rio de Janeiro (tiragem 5.000 exemplares) e *ibid* N<sup>o</sup> 33, p. 4, de 10 de outubro de 1994.
4. “Um momento para repensar a licenciatura” - F. Caruso - *Nação Brasil*, Ano 2, N<sup>o</sup> 63, p. 6, 15 de maio de 1995.
5. “Brutalização do Rito” - F. Caruso - *Jornal do Brasil*, Ano CV, No. 366, Caderno Opinião, p. 9, de 8 de abril, (1996).

## 3 Cosmologia e Gravitação

### 3.1 Artigos Publicados em Revistas Especializadas

1. “An Exact Solutions of the  $\gamma$ -Equation” - M. Novello - *Helvetica Physica Acta*, **44**, 6, 697-702, (1971).
2. “Gravitation as a consequence of the Self-Interaction of the  $\gamma$  Fields” - M. Novello - *Journal of Mathematical Physics*, **12**, 6, 1039, (1971).
3. “The Origin of the Neutrino Mass” - M. Novello - *Lett. Nuovo Cimento*, **1** (6), 252-254, (1971).
4. “The cosmological dependence of weak interaction” - M. Novello & P. Rotelli - *Journal of Physics A*, **5**, 1488, (1972).
5. “Weak and Electromagnetic Forces as a Consequences of the Self-Interaction of the  $\gamma$ -Field” - M. Novello - *Phys. Rev.*, **D8**, 2398, (1973).
6. “Beyond the cosmological Singularity” - M. Novello & Ligia M. C. S. Rodrigues - *Lett. Nuovo Cimento*, **13**, 2, (1975).
7. “Spherically Symmetric Neutrino Radiation Stars” - I. Damião Soares, M. Novello - *Phys. Lett.*, **55A**, 5, (1975).
8. “Generalization of Einstein’s Theory of Gravity in the presence of tensions in Space-Time” - M. Novello - *International Atomic Energy Agency*, IC/75/61, Miramare-Trieste, (1975).
9. “Neutrino Cosmology” - M. Novello & I. Damião Soares - *Phys. Lett.*, **56A**, 431, (1976).



10. “Electric and Magnetic Gravitational monopoles: the equation of motion of poles” - M. Novello, C. A. P. Galvão, I. Damião Soares & J. M. Salim - *Jour. of Phys. A*, **9** (4) 547, (1976).
11. “Scalar and Massless Vector Fields in Cartan Space” - M. Novello - *Physics Letters*, **59A** (2) 105-106, (1976).
12. “Ghost Basis for Neutrino” - M. Novello - *Phys. Letters*, **58A** (2) 75-76, (1976).
13. “Cartan frames and rotating universes” - I. Damião Soares - *Jour. Phys.*, **A9**, 555, (1976).
14. “On Jacobi Fields” - M. Novello, I. Damião Soares & J. M. Salim - *GRG Journal*, **8** (2) 95, (1977).
15. “Static Inhomogeneous Cosmological Model” - M. Novello - *Phys. Lett.*, **61A**, 293, (1977).
16. “Eigenvalue Treatment of Cosmological Models” - M. Novello, I. Damião Soares - *Phys. Lett.*, **64A** (2), 153, (1977).
17. “Absorption of Gravitational Waves by an Excited Vacuum Space-Time” - M. Novello - *Phys. Lett.*, **61A** (7), 441-442, (1977).
18. “Relativistic model of a spherical star emitting neutrinos” - I. Damião Soares - *Phys. Rev.*, **D17**, 1924, (1978).
19. “Anisotropic Bianchi VIII/IX cosmological models with matter and electromagnetic fields” - I. Damião Soares & M. J. D. Assad - *Phys. Lett.*, **66A**, 359, (1978).
20. “Anisotropic Bianchi II cosmological models with matter and electromagnetic fields” - I. Damião Soares - *Rev. Bras. Fís.*, **8**, 336, (1978).
21. “Excitations of the Gravitational Field - I” - M. Novello - *Rev. Bras. de Física*, **8**, 2, 442, (1978).
22. “The Stability of Rotating Universe” - M. Novello, M. J. Rebouças - *Astrophysical Journal*, **225**, 719, (1978).
23. “Galaxy Formation and Vacuum Quantum Fluctuation of the Gravitational Field” - M. Novello - *Lett. Nuovo Cimento*, **24** (3), 72, (1979).
24. “A Note Concerning the Gravitational Indistinguishability of a Neutrino Field and Stokesian Fluids” - M. Novello - *Phys. Letters*, **69A**, 5, 309, (1979).
25. “Non-linear Photons in the Universe” - M. Novello & J. M. Salim - *Phys. Rev. D*, **20**, 377, (1979).
26. “Rotating Universe with Successive Causal and non-causal regions” - M. Novello & M. J. Rebouças - *Phys. Rev. D*, **19**, 10, 2850, (1979).

27. "Inhomogeneous rotating universe with closed timelike geodesics of matter" - I. Damião Soares - *J. Math. Phys.*, **21**, 521, (1980).
28. "Nonlinear Viscous Cosmology" - M. Novello & J. B. D'Olival - *Acta Physica Polonica*, **B11**, 3, (1980).
29. "On Dual Properties of Weyl Space" - M. Novello & J. Duarte - *Gen. Rel. Grav.*, **12**, 871, (1980).
30. "Qualitative Analysis of homogeneous universes" - M. Novello & R. Araujo - *Phys. Rev. D*, **22**, 260, (1980).
31. "Stokesian Fluids and Cosmology" - M. Novello - *Nukleonika*, oct. 1980, número especial dedicado à Memória do físico polonês B.Kuchowicz, (1980).
32. "Algumas Questões Cosmológicas" - M. Novello - *Revista Brasileira de Física*, **10**, 3, 599, (1980).
33. "Generation and Propagation of Synchro - Cherenkov Radiation" - M. Novello, H. Heintzman & E. Schrfer - *Rev. Bras. de Física*, **11**, 3, 623, (1981).
34. "Pulsar Slow-Down Epochs" - M. Novello & H. Heintzmann - *Rev. Bras. de Física*, **11**, 611, (1981).
35. "Gravitational coupling of neutrinos to matter vorticity" - I. Damião Soares - *Phys. Rev.*, **D23**, 272, (1981).
36. "Is parity violation a cosmological evolution effect?" - M. Novello, A. Santoro & H. Heintzmann - *Phys. Lett.*, **89A**, 266, (1982).
37. "Cosmic Repulsion" - M. Novello - *Phys. Lett.*, **90A**, 347, (1982).
38. "Action Principle for a hot plasma in curved space-time" - M. Novello & H. Heintzmann - *Phys. Rev. A*, **27** (5), 2671, (1983).
39. "Weyl Integrable Space-Time: A Model of our Cosmos?" - M. Novello & H. Heintzmann - *Physics Letters*, **98A**, p.10-11, (1983).
40. "Non Equilibrium Relativistic Cosmology" - M. Novello & J. M. Salim - *Fundamentals of Cosmic Physics*, **8**, 201-342, (1983).
41. "Geodesic motion and confinement in Godel's universe" - M. Novello, I. Damião Soares & J. Tiomno - *Phys. Review D*, **27** (4), 779, (1983).
42. "Anisotropic Bianchi VIII/IX, L.R.S. Cosmologies" - I. Damião Soares & M. J. D. Assad - *Phys. Rev.*, **D28**, 1858, (1983).
43. "Bifurcation in the Early Cosmos" - M. Novello & L. M. C. S. Rodrigues - *Lett. Nuovo Cimento*, **40** (10), 317, (1984).

44. "An Eternal Universe" - M. Novello & H. Heintzmann - *General Relativity and Gravitation*, **16**, 6, p.535-539, (1984).
45. "Nonlinear Photons in the Universe" - M. Novello & J. Salim - *Lett. Nuovo Cimento*, **40** (8), 232, (1984).
46. "Gravitational coupling of scalar and fermion fields to matter vorticity: Microscopic asymmetries" - I. Damião Soares & J. Tiomno - *Rev. Bras. Fís. Supl.*, **14**, 374, (1984).
47. "On the stability of the Einstein universe" - I. Damião Soares & J. R. T. Mello Neto - *Rev. Bras. Fís.*, **14**, 377, (1984).
48. "Gravitational coupling of neutrinos to matter vorticity: microscopic asymmetries in angular-momentum modes" - I. Damião Soares & L. M. S. Rodrigues - *Phys. Rev. D*, **31**, 422, (1985).
49. "The Hall Effect in a Unipolar Inductor: a possible dynamo or anti-dynamo" - M. Novello & H. Heintzmann - *Revista Brasileira de Física*, **15**, p.394, (1985).
50. "A Unified Model for Gravity and Electroweak Interactions" - M. Novello & L. M. C. S. Rodrigues - *Lettere al Nuovo Cimento*, **43**, p.292, (1985).
51. "Stochastic Behaviour of the Sitter Universes" - M. Novello & L. A. R. Oliveira - *Physics Letters*, **109A**, p.454, (1985).
52. "Homoclinic phenomena in the gravitational collapse" - I. Damião Soares, J. Koiller, J. R. T. Mello Neto - *Phys. Lett.*, **A110**, 260, (1985).
53. "Pulsar Procession: a Nod is not as Good as a Wink!" - M. Novello & H. Heintzmann - *Revista Brasileira de Física*, **16**, p.413, (1986).
54. "A Marionete Universe" - M. Novello & L. A. R. Oliveira - *Journal of Modern Physics A*, **1**, 4, (1986).
55. "Système conforme régulier pour les équations d'Einstein" - M. Novello & Y. Choquet-Bruhat - *Comptes Rendu Academie de Science - Paris*, **305**, p. 155, (1987).
56. "Nonminimal Interaction of Gravity with other Physical Fields: An Overview" - M. Novello & L. A. R. Oliveira - *Revista Brasileira de Física*, **17**, 3, p.432, (1987).
57. "Nonminimal Gravitational Coupling: The Spectrum of Cosmic Solutions" - M. Novello, C. Romero - *General Relativity and Gravitation*, **19**, 0, (1987).
58. "The Connection Between General Observers and Lanczos Potential" - M. Novello & A. L. Velloso - *GRG Journal*, **19**, 12, p.1251-1265, (1987).
59. "Magnetohydrodynamics Cosmologies with a Bertotti-Robinson-Like Limit" - R. Portugal & I. Damião Soares - *Astrophys. Journal*, **316**, 483, (1987).

60. "First Order Formalism for Quantum Gravity" - N. Pinto Neto, M. Gleiser & R. Holman - *Nuclear Phys. B*, **294**, 1164, (1987).
61. "Non-Equilibrium Friedmann Cosmologies" - J. M. Salim & H. P. Oliveira - *Acta Polonica B*, **19** (7), 373, (1988).
62. "Geometric Description of Hadronization in Curved Spacetime" - I. Bediaga, M. Gasperini, M. Novello & E. Predazzi - *Modern Phys. Lett.*, **4A**, 2, 169-174, (1988).
63. "Bulk-Viscosity-Driven Asymmetric Inflationary Universe" - R. Portugal, J. A. S. Lima & I. Waga - *Phys. Rev. D*, **37**, 2755, (1988).
64. "Quantum Gravity, Classical Geometry : a Coherent Treatment" - M. Novello & E. Elbaz - *Revista Brasileira de Física*, **19**, 4, p. 591-597, (1989).
65. "Does there exists a Cosmological Horizon Problem?" - M. Novello & S. Jorda - *Modern Physics Letters*, **4A**, 19, p. 1809-1813, (1989).
66. "Is the number of photons conserved in an expanding universe?" - M. Novello, L. A. R. Oliveira & J. Salim - *Class. Quantum Grav.*, **6**, (1989).
67. "A new Short Range Gravitational Force in the leptonic world?" - M. Novello & E. Elbaz - *LYCEN*, 8911, (1989).
68. "Black hole decay and topological stability in quantum gravity" - I. Damião Soares, L. Rodrigues, J. Zanelli - *Phys. Rev. Lett.*, **62**, 989, (1989).
69. "On the Detection of Matter Vorticity and Spacetime Torsion" - B. D. B. Figueiredo, I. Damião Soares & J. Tiomno, *Phys. Lett.* **A137**, 99 (1989).
70. "Viscous Causal Cosmologies" - M. Novello, H. P. Oliveira, J. M. Salim & J. Torres - *Acta Physica Polonica*, **B21**, 7, (1990).
71. "Gravitationally Self-Induced Phase Transition" - M. Novello & S. L. Duque - *Physica A*, **168**, 1073-1081, (1990).
72. "Quantum Fields in Cosmological Space-Time: a Soluble Example" - M. Novello, I. Costa, N. Deruelle & N. F. Svaiter - *Classical and Quantum Gravity*, **6**, 1893-1907, (1990).
73. "Is the Number of Photons Conserved in an Expanding Universe?" - M. Novello, L. A. R. Oliveira & J. M. Salim - *Classical and Quantum Gravity*, **7**, 51-65, (1990).
74. "Spinning Fluids in General Relativity: a variational formulation" - J. M. Salim & H. P. Oliveira - *Class. Quant. Grav.*, **8**, 1991.
75. "Quantization of Spin-Two Field in Terms of Fierz Variables: the Linear Case" - M. Novello, N. P. Neto, L. R. de Freitas & N. F. Svaiter - *Fortschritte der Physik*, **39**, 8, 1991.

76. “Magnetohydrodynamics Cosmologies” - R. Portugal & I. Damião Soares - *Astrophysical Journal*, **380**, 330, (1991).
77. “Gravitational coupling of Klein-Gordon and Dirac particles to matter vorticity and spacetime torsion” - I. Damião Soares, B. D. B. Figueiredo & J. Tiomno - *Class. Quant. Grav.*, **9**, 1593, (1992).
78. “Dissipative Cosmologies with Decaying Vacuum Energy” - J. M. Salim, M. O. Calvão, H. P. de Oliveira & D. Pavón - *Phys. Rev. D*, **45**, 3869, (1992).
79. “Extended Thermodynamic Approach to Friedmann-Robertson-Walter Models in the Landau-Lifshitz Frame” - J. M. Salim & M. O. Calvão - *Class. Quantum Grav.*, **9**, 127, (1992).
80. “Electrodynamics, Gravity and the Corresponding Short-Range Fermi Forces” - M. Novello & E. Elbaz - *Fortschr. Phys.*, **40** (8), p. 651, (1992).
81. “Theory of Gravity in Fierz Variables (The Linear Case)” - M. Novello & N. P. Neto - *Fortschr. Phys.*, **40** (8), p. 173, (1992).
82. “Backwards time travel induced by combined magnetic and gravitational fields” - M. Novello, N. F. Svaiter & M. E. X. Guimarães - *Modern Phys. Lett.*, **7** (5), 381-386, (1992).
83. “On the influence of Spin on Entropy Production in curved spacetimes” - J. M. Salim & H. P. Oliveira - *Phys. Lett. A*, **170**, 370, (1992).
84. “Double Paramétrisation en Relativité Générale” - N. Pinto Neto & J. Fabris - *Comptes Rendus de l'Académie des Sciences de Paris*, **317** (11), 1383, (1993).
85. “The Search for New Representations of the Wheeler-De Witt Equation Using the First Order Formalism” - N. Pinto Neto & A. F. Velasco - *Gen. Rel. and Grav.*, **25** (10), 991, (1993).
86. “Thermodynamic Constraints on a Time-Dependent a Model” - J. M. Salim & I. Waga - *Class. Quant. Grav.*, **10**, 1767-1774, (1993).
87. “Dynamics and Collision of Massim Shells in Curved Backgrounds” - J. M. Salim, D. Nunez & H. P. de Oliveira - *Class. Quant. Gravity*, **10**, 1117, (1993).
88. “Geometrized Instantons and the Creation of the Universe” - M. Novello, L. A. R. Oliveira, J. M. Salim & E. Elbaz - *International Journal of Modern Physics*, **1**, no. 3, 641, (1993).
89. “Solutions to a Spheroidal Wave Equation” - B. D. B. Figueiredo & M. Novello - *J. Math. Phys.*, **34**, 7, (1993).
90. “Phase Transition in Nonlinear Viscous Cosmology” - M. Novello, S. L. S. Duque, R. Triay & H. H. Fliche - *Phys. Rev.*, **47D**, 8, 3165, (1993).

91. "Synchronized Frames for Gödel's Universe" - M. Novello, N. F. Svaiter & M. E. X. Guimarães - *General Relativity and Gravitation*, **25**, 2, (1993).
92. "Spectral Density of Quantum Field in Cosmic Strings Spacetime" - N. F. Svaiter - *Il Nuovo Cim.*, **108B**, 705, (1993).
93. "Quantum Fluctuations, Noise and the Quantum Equivalence Principle" - N. P. Neto & N. F. Svaiter - *Europhys. Lett.*, **24**, 7, (1993).
94. "Exact Solution for the Gravitational Field of a String with Non-Zero Cosmological Constant" - M. Novello & M. C. Motta da Silva - *Phys. Rev. D*, **48**, 10, 5017, (1993).
95. "Antisymmetric Tensor Field Interactions and Neutron Star Models" - N. Pinto Neto & T. Damour - *Classical and Quant. Grav.*, **11**, 6, 1565, (1994).
96. "Cosmic Spinning String and Causal Protecting Capsules" - M. Novello & M. C. Motta da Silva - *Phys. Rev. D*, **49**, 2, 825, (1994).
97. "Modelling the black hole interior" - J. M. Salim & H. P. Oliveira - *Class. Quantum Grav.*, **11**, (1994).
98. "Nonlinear theories of spin-2 field in terms of Fierz variables" - L. R. de Freitas, M. Novello & N. Pinto Neto - *J. Math. Phys.*, **35**, 2, 734, (1994).
99. "On the generation of electromagnetic fields in the universe" - M. Novello & E. Elbaz - *Phys. Letters A*, **187**, 356-358, (1994).
100. "Soft-Big-Bang Model Induced by Non-Minimal Coupling" - M. Novello & E. Elbaz - *Nuovo Cimento*, **109B**, 741, (1994).
101. "The Milne Coordinates System is a Good One?" - R. C. Arcuri, B. F. Svaiter & N. F. Svaiter - *Mod. Phys. Lett.*, **A9**, 19, (1994).
102. "Quantum Processes: Stimulated and Spontaneous Emission Near Cosmic Strings" - B. F. Svaiter & N. F. Svaiter - *Class. Quantum Grav.*, **11**, 347, (1994).
103. "The Gravitational energy in asymptotically anti-DeSitter spacetimes" - I. Damião Soares & N. P. Neto - *Phys. Rev.*, **D52**, 10, p. 5665, (1995).
104. "Antipodal universes in the topology  $H^3 \times R$  and  $S^3 \times R$ " - I. Damião Soares, F. D. Sasse & J. Tiomno - *Braz. J. Phys.*, **25**, 204, (1995).
105. "Non-Local Theory of Gravity" - M. Novello & S. L. S. Duque - *International Journal of Modern Physics D*, **4**, no. 10, 79 - 96, (1995).
106. "Non linear non local theory of Gravity" - M. Novello & V. A. Lorenci - *Modern Physics Letters A*, **10**, no.10, 807 - 812, (1995).

107. "Minimal Closed Set of Observables in the Theory of Cosmological Perturbations" - M. Novello, J. M. Salim, M. C. Motta da Silva, S. E. Jorás & R. Klipper - *Physical Review D*, **51**, no. 2, 450, (1995).
108. "Minimal Closed Set of Observables in the Theory of Cosmological Perturbations II: Vorticity and Gravitational Waves" - M. Novello, J. M. Salim, M. C. Motta da Silva, S. E. Jorás & R. Klipper - *Physical Review D*, **52**, no.2, 730, (1995).
109. "A variational approach to changed spinning fluids in general relativity" - J. M. Salim & H. P. de Oliveira - *Phys. Lett. A*, **201**, 381-386, (1995).
110. "Exact Solutions in Multidimensional Cosmology with Bulk Viscosity" - V. R. Gavrilov, V. N. Melnikov & M. Novello - CBPF-NF-036/95, (1995), submitted.
111. "Nonminimal Coupling and Quantum Cosmology" - M. Novello, V. M. C. Pereira & N. Pinto Neto - *International Journal of Modern Physics*, **4**, no. 4, 5, 673, (1995).
112. "Numerical Investigation of Integrable Weyl Geometry in Multidimensional Cosmology" - M. Yu Konstantinov, V. N. Melnikov & M. Novello - *International Journal of Modern Physics D*, **4**, no. 3, 339-355, (1995).
113. "The Static Gravitational Field of a Spherically Symmetric Body" - M. Novello, L. R. de Freitas & V. De Lorenci - CBPF-NF-086/95 (1995).
114. "Stochastic Equations for Spin-2 Fields in the Quasi-Maxwellian Formulation" - L. R. de Freitas, R. C. Arcuri, J. M. Salim, M. Novello, L. A. Oliveira & R. Klipper - *Phys. Lett. A*, **211**, 1-4, (1996).
115. "Non linear non local theory of gravity - II" - M. Novello & V. A. De Lorenci - *Grav. Cosmol.*, **2**, 1(5), 501, (1996).
116. "Minimal Closed Set of Observables in the Theory of Cosmological Perturbations III: Quantum Effects" - M. Novello, J. M. Salim, M. C. Motta da Silva & R. Klipper - *Phys. Rev. D*, **54**, 4, 2578, (1996).
117. "Canonical Formulation of Standard Cosmology: Direct Quantum Approach" - M. Novello, J. M. Salim, M. C. Motta da Silva & R. Klipper - *Phys. Rev. D*, **54**, 10, (1996).
118. "Direct Electrogravitational Couplings and the Behavior of Primordial Large-Scale Magnetic Fields" - M. Novello, L. A. R. Oliveira & J. M. Salim - *Class. Quant. Grav.*, **13**, 1089, (1996).
119. "Fluctuations in a Primordial Anisotropic Era" - M. Novello & L. R. de Freitas - to appear in *Int. Jour. Mod. Phys.*, (1996).
120. "Does the Gravitational Waves travel at Light Velocity?" - M. Novello, L. R. de Freitas & V. A. De Lorenci - *Annals of Physics*, **254**, 83 (1997).
121. "Note on Stochastization of Free Linearized Gravitational Field" - L. R. de Freitas *et al.*, *Phys. Lett. A* **225**, 364 (1997).

### 3.2 Livros

1. “*Cosmos et Contexte*” - M. Novello - Ed. Masson, Paris, (1987).
2. “*Vth Brazilian School of Cosmology and Gravitation*” - M. Novello (Ed.) - Ed. World Scientific, Singapore, (1987).
3. “*Cosmos e Contexto*” - M. Novello - Ed. Forense Universitária, Rio de Janeiro, (1989).
4. “*Cosmologie*” - E. Elbaz & M. Novello - Ed. Ellipses, Paris, (1992).
5. “*VIIth Brazilian School of Cosmology and Gravitation*” - M. Novello (Ed.) - Ed. World Scientific, Singapore, (1994).
6. “*VIIIth Brazilian School of Cosmology and Gravitation*” - M. Novello (Ed.) - Ed. World Scientific, Singapore, (1996).

### 3.3 Capítulos em Livros

1. “The Program of an Eternal Universe” - M. Novello - *in Vth Brazilian School of Cosmology and Gravitation, World Scientific, 245, (1987).*
2. “Perturbations of the Friedmann Universe” - M. Novello & J. M. Salim - *in Leite Lopes Festschrift (op. cit.), World Scientific, (1988).*
3. “Fundamentos da Cosmologia” - M. Novello - *in Particles and Fields, Ed. Sociedade Brasileira de Física, São Paulo, (1990).*
4. “Dynamical Eternal Universe Scenario” - M. Novello - *in Frontier Physics, Essays in Honour of Jayme Tiomno, Ed. World Scientific, Singapore, (1991).*
5. “Scalar-Vector Theory and Electrodynamics” - M. Novello & J. M. Salim - *in Cesar Lattes, 70 Anos, (1994).*
6. “Cosmology and Gravitation” - M. Novello - *in Proceedings VII Brazilian School of Cosmology and Gravitation, (1994).*
7. “Cosmologia” - M. Novello - *in Do Átomo Grego à Física das Interações Fundamentais, op. cit. (1995).*
8. “Crítica da Razão Cósmica” - M. Novello e L. R. de Freitas - *A Crítica da Razão, vários autores, (1996).*



## 3.4 Produção de Teses

### 3.4.1 Mestrado

1. “Teoria das Distribuições no Eletromagnetismo Clássico”, CBPF, (1968) - Mário Novello - Orientador: José Leite Lopes.
2. “Um modelo de solução cosmológica não singular”, CBPF, (1974) - L. M. C. S. Rodrigues - Orientador: Mário Novello.
3. “Criação de Partículas em um Universo em expansão: a questão da isotropização do cosmos”, CBPF, (1974) - C.A.P. Galvão - Orientador: Mário Novello.
4. Orientador: Mário Novello, Orientando: José Martins Salim - “Monopolos Gravitacionais”, CBPF, (1976).
5. Orientador: Mário Novello, Orientando: M.J.Rebouças - “Cosmologia fora do equilíbrio: Universo com Rotação”, CBPF, (1977).
6. Orientador: Mário Novello, Orientando: Ruben Araujo - “Análise Qualitativa de Modelos Cosmológicos”, CBPF, (1979).
7. Orientador: I.D. Soares, Orientando: M.J. Delgado Assad - “Modelos Cosmológicos Anisotrópicos Bianchi VIII/IX com Matéria e Campo Magnético” CBPF, (1980).
8. Orientador: Mário Novello, Orientando: J.Duarte - “Propriedades duais do tensor de Weyl”, CBPF, (1980).
9. Orientador: Mário Novello, Orientando: R.Arcuri - “Buracos Brancos”, CBPF, (1981).
10. Orientador: Mário Novello, Orientando: E.Ruckert “Fotons não lineares”, CBPF, (1981).
11. Orientador: Mário Novello, Orientando: Nelson Pinto Neto “Equações Alternativas de Gravitação”, CBPF, (1983).
12. Orientador: I.D.Soaes, Orientando: Renato Portugal “Modelos Cosmológicos Tipo Bianchi I,II,VIII, IX e Kantows-ki-Sachs com Fluidos Perfeito e Campos Eletromagnéticos com Corrente de Condutividade”, CBPF, (1984).
13. Orientador: J.M.Salim, Orientando: Claudia Pombo Costa - “Análise de Geometrias Conformalmente Planas no Formalismo das Equações Quase-Maxwellianas”, CBPF, (1984).
14. Orientador: Mário Novello, Orientando: Abilio Valerio Tozini - “Modelos do Universo em Rotação”, CBPF, (1984).
15. Orientador: Mário Novello, Orientando: Nami Fux Svaiter - “Fotons não Lineares no Universo de Bianchi-I”, CBPF, (1984).

16. Orientador: I.D.Souares, Orientando: João R.T.de M.Netto, “Dinâmica de perturbações Exatas em Modelos Cosmológicos do Tipo Bianchi IX”, CBPF, (1985).
17. Orientador: J.M.Salim, Orientando: Gilvan Augusto Alves - “Fótons não Lineares: Uma Solução Cosmológicas não Singular”, CBPF, (1986).
18. Orientador: I.D.Souares, Orientando: Fernando Deeke Sasse, “Simetrias, Problemas de Causalidade e Campos de Neutrinos em Universos Antígodos”, CBPF, (1986).
19. Orientador: J.M.Salim, Orientando: H.P. de Oliveira “Um Estudo em Cosmologia e Termodinâmica Causal”, CBPF. (1987).
20. Orientador: Mário Novello, Orientando: Stefan Dieter Jorda - “Os diversos modos de acoplamento não-mínimo entre eletromagnetismo e gravitação”, CBPF, (1988).
21. Orientador: J.M.Salim, Orientando: Edison de S.Moreira ordem e suas Aplicações para Quantização Canônica da Gravitação”, CBPF, (1991).
22. Orientador: Mário Novello, Orientando: Vinícius Moll de Castro Pereira - “Acoplamento Não Mínimo e Cosmologia Quântica: Um Modelo”, CBPF, (1991).
23. Orientador: Mário Novello, Orientando: Maria Emília Xavier Guimarães - “Sistemas Sincrônicos de Coordenadas no Universo de Godel”, CBPF, (1991).
24. Orientador: Mário Novello, Orientando: Martha Cristina Motta da Silva - “Construção de Modelos para um Universo Globalmente Causal a partir da Solução de Godel”, CBPF, (1992).
25. Orientador: N.P.Netto, Orientando: Vitor E.R.Lemes - “Rumo a uma Teoria Unitária Alternativa para a Gravitação: Novas Interações e semelhanças com a Einstein-Hilbert”, CBPF, (1993).
26. Orientador: Mário Novello, Orientando: Sérgio Eduardo de Carvalho Jorás - “Perturbações escalares no universo de Friedman Robertson Walker”, CBPF, (1994).
27. Orientador: Mário Novello, Orientando: Renato Klippert Barcellos - “Teoria de perturbações vetoriais e tensoriais no universo de Friedman”, CBPF, (1994).
28. Orientador: Mário Novello, Orientando: Vitório Alberto De Lorenci - “Teoria não local de um monopolo magnético”, CBPF, (1994).
29. Orientador: I.D.Souares, Orientando: M.C. de Lima - “O Espaço-Tempo de um Monopolo Magnético”, CBPF, (1995).
30. Orientador: N.Pinto Netto, Orientando: Paulo Israel Trajtenberg, em andamento, (1996).
31. Orientador: J.M. Salim, Orientando: Ricardo Mattos Martins, em andamento, (1996).
32. Orientador: J.M. Salim, Orientando: Flávia Máximo, em andamento, (1996).

### 3.4.2 Doutorado

1. Orientador: Mário Novello, Orientando: I.D.Soaes - “Um estudo da Interação-Gravitação Neutrino”, CBPF, (1976).
2. Orientador: Mário Novello, Orientando: C.A.P. Galvão - “Gravitação e Cosmologia em Espaços com Torção” CBPF, (1987).
3. Orientador: Mário Novello, Orientando: Luiz Alberto Rezende de Oliveira - “Acomplamento Não-Mínimo com a Gravitação e Espaços de Weyl Integráveis”, CBPF, (1988).
4. Orientador: Mário Novello, Orientando: Carlos Augusto Romero Filho - “Análise Qualitativa de Modêlos Cosmológicos na Teoria de Brans-Dicke”, CBPF, (1988).
5. Orientador: I.D.Soaes, Orientando: B.D.B.Figueiredo - “Um Estudo da Interação Gravitacional de Campos Escalares e Espinoriais com a Torção do Espaço-Tempo e com a Vorticidade da Matéria”, CBPF, (1988).
6. Orientador: I.D.Soaes, Orientando: Renato Portugal - “Modelos Cosmológicos em Regime Magnetohidrodinâmica”, CBPF, (1988).
7. Orientador: Mário Novello, Orientando: Nelson Pinto Neto - “Teoria da Gravitação em termos das Variáveis de Fierz-Lanczos”, CBPF, (1989).
8. Orientador: Mário Novello, Orientando: Luciane Rangel de Freitas - “Campos de Spin-2 Variáveis Fundamentais: A Proposta de Fierz”, CBPF, (1991).
9. Orientador: J.M.Salim, Orientando: H.P.Oliveira - “Fluidos com Spin em Relatividade Geral: Formulação Variacional, Aspectos Termodinâmicos e Modelos Cosmológicos”, CBPF, (1991).
10. Orientador: J.M.Salim, Orientando: Maurício O.Calvão - “A Riqueza Termodinâmica das Cosmologias de Robertson-Walker: Uma Ópera em Três Atos”, CBPF, (1991).
11. Orientador: Mário Novello, Orientando: Sérgio Luiz Schubert Duque - “Formulação Integro-Diferencial para a Gravitação”, CBPF, (1994).
12. Orientador: Mário Novello, Orientando: Martha Cristina Motta da Silva, em andamento, (1996).
13. Orientador: J.M. Salim, Orientando: Sandra Sautu, em andamento, (1996).
14. Orientador: Mário Novello, Orientando: Renato Klippert Barcellos, em andamento, (1996).
15. Orientador: Mário Novello, Orientando: Vitório Alberto De Lorenci, em andamento, (1996).

### 3.5 Proceedings - Conferências, Escolas, Workshops...

1. “Non-linear Lagrangian and Cosmology” - M. Novello - *1o. Congresso Latino-Americano de Gravitação*, Montevideo, (1972).
2. “Behaviour of matter near a singularity” - M. Novello - *1o. Congresso Latino-Americano de Gravitação*, Montevideo, (1972).
3. “Creation of Particles in an expanding Universe” - M. Novello, C. A. Galvão - *IV Congresso de General Relativity and Gravitation*, Canadá, (1977).
4. “Mirror Universes” - M. Novello, J. M. Salim - *General Relativity and Gravitation*, 9th Conference, (1980).
5. “Towards the Unification of Gravity and Electro-weak Interactions” - M. Novello, H. Heintzmann - *Proceeding of the Fourth Marcel Grossmann Meeting on General Relativity*, (1986).
6. “Stochastic Methods in Cosmology” - M. Novello - *IV Escola de Cosmologia e Gravitação*, Rio de Janeiro, (1987).
7. “The Program of an Eternal Universe” - M. Novello - *Vth Brazilian School of Cosmology and Gravitation*, World Scientific, **245**, (1987).
8. “L’Univers, de L’Infiniment Petit à L’Infiniment Grand” - M. Novello - *Certitudes et Incertitudes de la Science*, Lyon - França, (1988).
9. “O Programa Cosmológico de Einstein: Sucessos e Dificuldades” - M. Novello - *Encontro de Física Teórica do Rio de Janeiro*, (1988).
10. “Do we live in an Eternal Universe?” - M. Novello - *The Origin and Evolution of the Universe and Mankind*, Lima - Peru, (1989).
11. “Une Composante Gravitationnelle a Courte Portée?” - M. Novello, E. Elbaz - *Reunião Anual da Sociedade Francesa de Física*, Lyon - França, (1989).
12. “Variables Bootstrap dans la Relativité Générale” - M. Novello - *Reunião Anual da Sociedade Francesa de Física*, Lyon, França, (1989).
13. “Variáveis de Fierz e a Quantização da Gravitação” - M. Novello - *V Escola de Cosmologia e Gravitação*, Rio de Janeiro, (1989).
14. “Quantização de Campos de Spin-2 em Termo das variantes de Fierz - caso linear” - M. Novello, L. R. Freitas, N. P. Neto, N.F.Svaiter - *XI Encontro Nacional de Partículas e Campos*, SBF, (1990).
15. “Fundamentos da Cosmologia” - M. Novello - *XI Encontro Nacional de Partículas e Campos*, SBF, 162, (1990).
16. “Sistemas de Coordenadas Gaussianas no Universo de Gödel” - M. Novello, N. F. Svaiter - *XI Encontro Nacional de Partículas e Campos*, SBF, (1990).

17. “70 anos de Jayme Tiomno” - M. Novello - *Conferência Plenária, XI Encontro Nacional de Partículas e Campos*, SBF, Caxambu, (1990).
18. “Fundamentos da Cosmologia” - M. Novello - *Conferência Plenária, XI Encontro Nacional de Partículas e Campos*, SBF, Caxambu, (1990).
19. “Transição de Fase Auto-Induzida pela Gravitação” - M. Novello, S. L. S. Duque - *XI Encontro Nacional de Partículas e Campos*, SBF, 424, (1990).
20. “Sistema de Coordenadas Gaussianas do Universo de Godel” - M. Novello, N. F. Svaiter, M. E. X. Guimarães - *XI Encontro Nacional de Partículas e Campos*, SBF, 428, (1990).
21. “Creations de Photons dans un Univers en Expansion” - M. Novello - *Institut Henri Poincaré*, Paris - França, (1991).
22. “Cosmologia: Unificação das Interações Fundamentais?” - M. Novello - *LAFEX International School on High Energy Physics*, Rio de Janeiro, (1993).
23. “Cosmologia e partículas elementares: uma síntese” - M. Novello - *XV Encontro Nacional de Partículas e Campos*, (1994).
24. “Gauge Independence of the theory of Perturbation of Friedman Universes” - M. Novello - *New trends in Geometrical and Topological Methods*, Funchal, Madeira, (1995).
25. “Uma nova teoria de Campo da Gravitação” - M. Novello - *XV Encontro de Física de Partículas e Campos*, (1995).

### **3.6 Artigos Didáticos, de Divulgação, de Política Acadêmico-Científica e Notas Técnicas:**

1. “On the mass difference of the electron and the muon” - M. Novello, M. Armony - CBPF NF-XIX, 3, (1972).
2. “A new model of gravitational interaction” - M. Novello - *Notas de Física*, CBPF, (1973).
3. “On a new formulation of the hamiltonian theory of gravity” - M. Novello - CBPF-NF-045/83, (1983).
4. “On the way to a large unification theory” - M. Novello & L. M. C. S. Rodrigues - CBPF-NF-074/83, (1983).
5. “O Universo Eterno” - M. Novello & H. Heintzmann - CBPF-CS-001/83, (1983).
6. “A Scheme to Unify Gravity and Electro-Weak Interactions” - M. Novello & H. Heintzmann - CBPF-NF-058/85, (1985).

7. “On the propagation of Einstein’s equations with quasi-maxwellian equations of gravity” - M. Novello, J. M. Salim - CBPF-NF-021/85, (1985).
8. “Qual a origem das Galaxias?” - M. Novello & H. Heintzmann - *Ciência Hoje*, **24**, p. 16, (1986).
9. “New feature for an old large number” - M. Novello & L. R. A. Oliveira - CBPF-NF-020/86, (1986).
10. “A New Cosmological Scenario” - M. Novello - CBPF-NF-025/86, (1986).
11. “A modified theory of gravity” - M. Novello & N. P. Neto - CBPF-NF-002/87, (1987).
12. “Entre Física e Filosofia” - M. Novello, L. A. Oliveira & J. M. Salim - *Folhetim - Folha de São Paulo*, 1o. de outubro, (1988).
13. “Does there exist a gravitational analogue of the electro-weak unification?” - M. Novello - CBPF-NF-009/89, (1989).
14. “Bootstrap variables in Einstein’s general relativity (the role of the cosmological constant)” - M. Novello & E. Elbaz - CBPFNF020/89, (1989).
15. “Em Homenagem aos 70 anos de Jayme Tiomno” - M. Novello - CBPF-NF-004/90, (1990).
16. “Formação de galaxias: uma teoria em crise” - I. Damião Soares - *Ciência Hoje* **13**, 75, 11, (1991).
17. “Totalidade: Uma Visão Científica” - M. Novello - Sociedade Brasileira de Psicanálise, 1993.
18. “Direct Electrogravitational Couplings and the Behavior of Primordial Large-Scale Magnetic Fields” - M. Novello, L. A. R. Oliveira & J. M. Salim - CBPF-NF-034/94, (1994).
19. “Fluctuations in a Primordial Anisotropic Era” - M. Novello, L. R. de Freitas - CBPF-NF-047/94, (1994).
20. “A Energia do Universo” - I. Damião Soares - *Ciência Hoje*, **17**, 98, 18, (1994).

## 4 História e Filosofia da Física

### 4.1 Artigos Publicados em Revistas Especializadas

1. “On the Physical Problem of Spatial Dimensions: An Alternative Procedure to Stability Arguments” - F. Caruso & R. Moreira Xavier - *Fundamenta Scientiae*, **8** (1), 73-91 (1987).

2. "Causa Formalis Versus Causa Efficiens: Origens da Discussão Moderna sobre a Dimensionalidade do Espaço Físico" - F. Caruso & R. Moreira Xavier - *Cadernos de História e Filosofia da Ciência*, Série 3, v. 4, n. 2, pp. 43-64, jul. - dez. (1994).
3. "Notas sobre o problema da dimensionalidade do espaço e da extensão no primeiro texto do jovem Kant" - F. Caruso & Moreira Xavier - *Scientia*, 7, (2), pp. 13-22 (1996).
4. "Sull'influenza di Cartesio, Leibniz e Newton nel primo approccio di Kant al problema dello spazio e della sua dimensionalità" - F. Caruso & R. Moreira Xavier - CBPF-NF-047/96, aceito para publicação na revista *Epistemologia*.