Javier Edgardo MAGNIN

CURRICULUM VITAE

August 2010

Birth date: August 13, 1963.
Birthplace: Necochea, Provincia de Buenos Aires, Rep. Argentina.
Citizenship: Argentinian.
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PRESENT ACADEMIC POSITION

- Associated Researcher, Centro Brasileiro de Pesquisas Físicas (CBPF), Rio de Janeiro, Brazil, since April 2001.

- Adjunct Professor at Physics Department, Los Andes University, Santa Fé de Bogotá, Colombia, since 2004, *ad honorem*.

EDUCATION

- Ph.D. Cuyo National University and Balseiro Institute (Bariloche Atomic Center, IB-CAB), Argentine, January 6^{th}, 1995. Thesis: **BRST Quantization of Chiral Electrodynamic and Semi Classical Effects of Chiral Anomaly**. Thesis advisor: Prof. Dr. Luis Masperi.

- Licenciado en Física (equivalent to MS. in Physics). San Luis National University (UNSL), Argentine, 1988. Thesis: **Effect of Microheterogeneities on Diffusion of Gases through Glassy Polymers**. Thesis advisor: Prof. Dr. Jorge Horas.

POSITIONS HELD

- Assistant Professor, Los Andes University, Bogotá, Colombia. August 1999 - January 2001.

- Visiting Scientist, Centro Brasileiro de Pesquisas Físicas (CBPF), Rio de Janeiro, Brazil. March 1997 - July 1999.

- Postdoc, CBPF, Rio de Janeiro, Brazil. February 1995 - January 1997.

- Assistant Professor, Universidad Nacional del Comahue (UNCH), S.C. de Bariloche, Argentina. August 1993 - December 1994.

- Teaching Assistant, UNCH, S.C. de Bariloche, Argentina. July 1989 - July 1993.

- Teaching Assistant, Universidad Nacional de San Luis (UNSL), San Luis, Argentina. July 1987 - July 1988.

FOREING LANGUAGES

- Spanish (native).
- English.
- Portuguese.

SCIENTIFIC VISITS

- Invited scientist at Instituto de Ciencias Nucleares - Universidad Nacional Autónoma de México, México D.F., Apr. 19 - 30, 2010.

- Invited scientist at Universidad de los Andes, Bogotá, Colombia, Sept. 28 - Oct. 17, 2009.

- Visiting scientist at CERN - LHCb Collaboration, Aug. 31 to Sep. 5, 2009

- "Silla Sanford" Professor, Universidad de los Andes, Bogotá, Colombia, September 9 to December 12, 2007.

- Visiting scientist at CERN - LHCb Collaboration, May 7 to July 2, 2007.

- Invited scientist at Instituto de Ciencias Nucleares - Universidad Nacional Autónoma de México, México D.F., April 16 - 21, 2007.

- Invited scientist at CINVESTAV, México D.F., April 9 - 13, 2007.

- "Silla Sanford" Professor, Universidad de los Andes, Bogotá, Colombia, September 3 to November 30, 2006.

- Invited scientist at Instituto de Ciencias Nucleares - Universidad Nacional Autónoma de México, México D.F., November 14 - 26, 2005.

- Invited scientist at Universidad de los Andes, Bogotá, Colombia, July 16 - August 13, 2005.

- Invited scientist at Universidad de los Andes, Bogotá, Colombia, July 5 - 30, 2004.

- Invited scientist at Instituto de Ciencias Nucleares - Universidad Nacional Autónoma de México, México D.F., May 10 - 14, 2004.

- Invited scientist at CINVESTAV, Mérida, México, May 3 - 7, 2004.

- Invited scientist at CINVESTAV, México D.F., April 26 - 30, 2004.

- Invited scientist at Instituto de Ciencias Nucleares - Universidad Nacional Autónoma de México, México D.F., November 16 - 29, 2003.

- Invited scientist at Universidad de los Andes, Bogotá, Colombia, March 17 - April 11, 2003.

- Invited scientist at Instituto de Ciencias Nucleares - Universidad Nacional Autónoma de México, México D.F., June 24 - July 5, 2002.

- Invited scientist at Universidad de los Andes, Bogotá, Colombia, April 30 - May 10, 2002.

- Visiting scientist at Universidad de los Andes, Bogotá, Colombia, October 15 - November 15, 2001.

- Visiting scientist at CINVESTAV-IPN, México D.F., August 10 - September 7, 2001.

- Invited scientist at Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil, June-July 2000.

- Visiting scientist fellowship by Fundação de Amparo à Pesquisa do Estado de Rio de Janeiro, (FAPERJ), at CBPF, Rio de Janeiro, Brazil. March 1997 - July 1999.

- Invited scientist at Department of Nuclear Sciences, Universidad Nacional Autónoma de México, México DF, October 26^{th} to 28^{th}, 1998.

- Invited scientist at Benemérita Universidad de Puebla, Puebla, México, October 14^{st} to 25^{th}, 1998.

- Visiting scientist at Fermi National Laboratory, September 13^{th} to October 13^{th}, 1998.

- Invited scientist at CINVESTAV, México DF, September 21^{st} to September 29^{th}, 1997.

- Visiting scientist at Fermi National Laboratory, July 19^{th} to September 20^{th}, 1997.

FELLOWSHIPS

- Research fellowship by Conselho Nacional de Pesquisa (CNPq-Brazil) since August 2001.

- Colciencias (National Council for Science and Technology, Colombia) fellowship for research at Universidad de los Andes, Bogotá, Colombia. August 1999 - January 2001.

- Research fellowship at CBPF by FAPERJ. March 1998 - August 1999.

- Postdoctoral fellowship at CBPF by Fundação de Amparo à Pesquisa do Estado de Rio de Janeiro (FAPERJ-Brazil). March 1997 - February 1998.

- Scholarship by Sociedad Mexicana de Física to attend the V Latin American Workshop on Phenomenology of the Fundamental Interactions, Puebla, Mexico, October 30^{th}-November 3^{rd}, 1995.

- Postdoctoral fellowship by Centro Latino Americano de Física, CLAF, at CBPF, Rio de Janeiro, Brazil. February 1995 - January 1997.

- CNEA fellowship for PhD. studies in Quantum Field Theory and Particle Physics at CAB-IB. October 1989-September 1994.

- CONICET scholarship to attend the IB-CONICET School in Solid State Physics, September 1987.

TEACHING EXPERIENCE

PHYSICS: Undergraduate Courses

- General Physics for Physicists and Engineers, Los Andes University. August 1999 - December 2000.

- Physics for Phonologists, UNSL, March - July, 1988.

- Modern Physics I and Thermodynamics for Physicists, UNSL, August 1987 - July 1988.

- Physics for Biologists and Chemists, UNSL, August 1986 - November 1987.

PHYSICS: Postgraduate Courses

- Heavy Ion Physics, VIII CBPF School, Centro Brasileiro de Pesquisas Físicas, July 19 - 30, 2010.

- Experimental Methods I, Centro Brasileiro de Pesquisas Físicas, March - June 2010.

- Introduction to neutrino physics, VII CBPF School, Centro Brasileiro de Pesquisas Físicas, July 14 - 25, 2008.

- Fundamental interactions II (Standard Model), Centro Brasileiro de Pesquisas Físicas, Aug. - Nov. 2008.

- Statistics for experimental Physicists, Los Andes University, September 9 to December 12, 2007.

- Quantum Field Theory II, Los Andes University, September 3 to Novenber 30, 2006.

- Kinematics for particle physicists. CBPF, August 16 - December 16, 2005.

- Kinematics for particle physicists. Los Andes University, July 5 - 30, 2004. Special course for graduate students given at the Physics Departament.

- Muon chambers and front end electronics for LHCb, 10^{th} ICFA Scool on Instrumentation in Particle Physics, Itacuruçá, Brazil, December 8 - 20, 2003.

- Topics in Elementary Particle Physics, IV CBPF School, Centro Brasileiro de Pesquisas Físicas, July 22 - 26, 2002.

- Topics in Particle Physics: Standard Model and Hadron Physics, Centro Brasileiro de Pesquisas Físicas, March - July 2002.

- Advanced Mathematical Methods for Physicists, Los Andes University, August - November 1999, and August - November 2000.

- Standard Model Phenomenology for Physicists, Los Andes University, January - May 2000.

MATHEMATICS: Undergraduate Courses

- Analitic Geometry for Mathematicians and Engineers, UNCH. June 1989 - December 1994.

- Algebra I for Mathematicians and Engineers, UNCH. March - July 1994.

EXPERIMENTAL LAB EXPERIENCE

As Teaching Assistant for Thermodynamics, I designed and mounted all the laboratory experiments at San Luis University which consist in 13 laboratory classes.

N.B.: All the university appointments I was awarded were filled by public opposition that included a master class.

THESIS

- Undergraduate Thesis advisor:

    1. Luis Carlos Reyes, **Neutrinos masivos en el Modelo Estandar y sus implicaciones en el problema de los neutrinos solares**,
    Co-advisor in collaboration with Dr. Juan Carlos Sanabria.
    Universidad de los Andes, Bogotá, Colombia, July 13, 2001.
    2. Federico Garcia, **La estructura de los piones y kaones en el modelo de nube de mesones**,
    Co-advisor in collaboration with Dr. Carlos Arturo Ávila Bernal.
    Universidad de los Andes, Bogotá, Colombia. February 10, 2002.
    3. Nicolas Afanador, **La estructura partónica de los Hiperones**,
    Co-advisor in collaboration with Dr. Carlos Arturo Ávila Bernal.
    Universidad de los Andes, Bogotá, Colombia. February 10, 2002.

- Master Thesis advisor:

    1. Ignacio Monroy, **La asimetria del mar extraño del proton**,
    Co-advisor with Dr. Juan Carlos Sanabria, Universidad de los Andes, Bogotá, Colombia, Nov. 2007.
    2. Alberto Ocampo, **Medida del angulo de Weimberg en interacciones anti-neutrino - electron**,
    Co-advisor with Dr. Juan Carlos Sanabria, Universidad de los Andes, Bogotá, Colombia, Nov. 2006.

3. Juan Carlos Hurtado, **Study of the $B \to K\pi$ decay**,
   Universidad de los Andes, Bogotá, Colombia. May 8, 2002.
4. Luis Miguel Mendoza, **Heavy quark production and hadronization effects in hadron-hadron interactions**,
   Universidad de los Andes, Bogotá, Colombia. May 9, 2002.

- PhD. Thesis advisor:

1. Antonio Augusto Alves, $D^0 - \bar{D}^0$ **mixing at LHCb**, CBPF, in progress.
2. Anderson Corrêa Schilitz, **Measurement of the mixing angle $sin^2\theta_{13}$ in reactor neutrino experiments**, CBPF, co-advisor in collaboration with Dr. João Carlos Costa dos Anjos, in progress.

- Thesis jury:

1. Luiz Fernando Mackedanz, **Produção e propagação de pártons energéticos no meio nuclear**, PhD. Thesis, Universidade Federal de Rio Grande do Sul, Porto Alegre, Brazil, May 7, 2008.
2. Felipe Andrés Bernal Arango, **Deflexión de neutrinos por campos magnéticos**, Undergraduate Thesis, Universidad de los Andes, Bogoá, Colombia, July 2005.
3. Héctor Mauricio Castañeda Cortés, **Nonexponential nuclear quantum decat at large times**, Undergraduate Thesis, Universidad de los Andes, Bogoá, Colombia, August 2005.
4. Jorge Andrés Molina Infran, **Estudo do espalhamento elástico em colisões $p - \bar{p}$ a $\sqrt{s} = 1.96$ TeV com o detetor de protons frontais FPD**, PhD Thesis, CBPF, Rio de Janeiro, Brazil, Octuber 31^{th}, 2003.
5. Luis Miguel Mendoza, **Heavy quark production and hadronization effects in hadron-hadron interactions**, Master Thesis, Universidad de los Andes, Bogotá, Colombia. May 9, 2002.
6. Juan Carlos Hurtado, **Study of the $B \to K\pi$ decay**, Master Thesis, Universidad de los Andes, Bogotá, Colombia. May 8, 2002.
7. Pedro Olaya, **Hacia la dualidad S**, Undergraduate Thesis, Universidad de los Andes, Bogotá, Colombia, February 2000.
8. Lina Merchan, **Un modelo bidimensional para el estudio de películas de jabón electrolítica**, Undergraduate Thesis, Universidad de los Andes, Bogotá, Colombia, August 2000.
9. Carla Göbel, **Estudo da contribuição não ressonante em decaimentos hadrônicos do méson D em três corpos**, PhD. Thesis, CBPF, Rio de Janeiro, Brazil, July 1999.

ORGANIZATION OF CONFERENCES

- **Hadron Physics**
  Member of the organizing committee since 2010. The Hadron Physics is a biennial conference organized by the brazilian hadron physics community.

- **XVI Escola de Vero Jorge Andr Swieca de Fsica Nuclear Experimental**
  January 26 - Fevruary 5, 2010, São Paulo, Brazil

- **XI International Conference on Hadron Spectroscopy - HADRON-05.**
  21 - 26 August 2005, Rio de Janeiro, Brazil

- **IV Latin American Simposium on High Energy Physics - SILAFAE-IV.**
  14 - 19 October 2002, Águas de Lindóia, Brazil

REFEREE

- Referee of the "Revista Mexicana de Física", since 2006.

- Referee for research projects, Brazilian Agency for Scientific Research, CNPq, since 2002.

- Referee for research projects, Colombian Agency for Scientific Research (COLCIENCIAS) since 2000.

- Referee for the Best Colombian Thesis in Physics, contest organized by Universidad Nacional de Colombia, 2000.

PARTICIPATION IN INTERNATIONAL COLLABORATIONS

- **"The strange content of the proton"**
  Research project with the High Energy Physics Group at Los Andes University (2009 - 2010), Funded by Banco de la República under Project No.: 2047 (Colombia). Participant.

- Member of the **ν-Angra Collaboration**, at CBPF, Brazil, 2006 to 2008.

- **"Physics of hadronic collisions at ultra relativistic energies"**
  International research agreement CNPq-CONACYT, Project No.: 690176 / 02-3 (2003 - 2005) and 491227 / 04-3 (2005 - 2007). Coordinator.

- Member of the **LHCb Colaboration** at CERN since 2002.

- **"Charm hadroproduction"**
  Research project with the High Energy Physics Group at Los Andes University (2001 - 2002). Funded by Banco de la República under Project No.: 1376 (Colombia). Participant.

- **"Charm physics"**
  International research agreement CNPq-CONACYT (research agreement among CBPF-Brazil and CINVESTAV-México) (1999 - 2001). Participant.

- Member of the **E831/Focus Collaboration** at Fermilab since 1998 (Charm Photoproduction).

- Member of the **E791 Collaboration** at Fermilab since 1997 (Charm hadroproduction).

ACTIVITIES IN COMPUTING (GRID)

During the year of 2009, in association with Lukas Nellen, from the Institute of Nuclear Sciences at UNAM (México), and Carlos Ávila, from the Phys. Dept. at Los Andes University (Colombia), we organized the Regional Operation Center for Latin America, ROC-LA. The ROC-LA, which enters in operation in Sept. 2009, has as the main task to monitor and support GRID sites in Latin America. Since then, I'm member of the Managment Committee of ROC-LA, together with Lukas Nellen and Carlos Ávila.

During the years of 2005-2006, I was involved in the creation of the GRID site of the CBPF, a Tier 2 for the LHCb computing system. Since then, I'm involved in the managment of the site.

TECHNICAL REPORTS

1. **Charm particle production in hadronic collisions.**
   C. Avila, J. Magnin and L.M. Mendoza-Navas, hep-ph/0307358.

2. **LHCB online system technical design report: Data acquisition and experiment control.**
   LHCb Collaboration (P.R. Barbosa-Marinho *et al.*).
   CERN-LHCC-2001-040, Dec. 2001.

3. **Charge asymmetries in charm photoproduction.**
   E. Cuautle, G. Herrera, J. Magnin and A. Sanchéz-Hernández, hep-ph/0005023.

4. **A Study of Baryon Production Asymmetries in E791.**
   S. Kwan, J. dos Anjos, G. Herrera, J. Magnin, F.R.A. Simão and J. Solano.
   Technical report Offline Doc. 299, E791 experiment, Fermilab (1997).

5. $\Lambda_c/\overline{\Lambda}_c$ **asymmetry in π^- Nucleus interactions.**
   J.C. Anjos, A. Fernandez, S. Kwan and J. Magnin.
   Technical report Offline Doc. 363, E791 experiment, Fermilab (1998).

6. **Can Thomas Precession produce Hyperon Polarization?**
   J. Magnin and F.R.A. Simão, CBPF report N^0 CBPF-NF-071/95.

INVITED SEMINARS

1. **A model of the nucleon structure**
   Depto. de Física, Universidade Federal de Rio de Janeiro, Brazil, Nov. 25, 2009.

2. **Spin alignment in ultra-relativistic heavy ion collisions**
   Depto. de Física, Universidade de São Paulo (USP), Brazil, Oct. 20, 2009.

3. **Spin alignment in ultra-relativistic heavy ion collisions**
   Facultad de Ciencias, Universidad de los Andes, Bogotá, Colombia, September 21, 2009.

4. **Neutrino Physics with Nuclear Reactors**
   Physics Department, Universidade Federal de Rio Grande do Sul, Porto Alegre, Brazil, May 7, 2008.

5. $D^0 - \bar{D}^0$ **mixing at LHCb**
   Facultad de Ciencias, Universidad de los Andes, Bogotá, Colombia, September 26, 2007.

6. **Neutrino Physics with Nuclear Reactors**
   Institute of Nuclear Sciences, Universidad Nacional Autónoma de México, Mexico DF, April 19, 2007.

7. **Neutrino Physics with Nuclear Reactors**
   Physics Department, CINVESTAV, México DF, April 13, 2007.

8. **Neutrino Physics with Nuclear Reactors**
   Facultad de Ciencias, Universidad de los Andes, Bogotá, Colombia, November 22, 2006.

9. **Quarks, leptons... Qué es todo eso ?**
   Coloquium in the "Program of popularization of Science" of the Faculty of Science, Universidad de los Andes, November 9, 2006.

10. **Charm Physics at LHCb**
    Facultad de Ciencias, Universidad de los Andes, Bogotá, Colombia, September 18, 2006.

11. **Signals for Quark-Gluon-Plasma production**
    Facultad de Ciencias, Universidad de los Andes, Bogotá, Colombia, August 11, 2005.

12. **Signals for Quark-Gluon-Plasma production**
    Universidade Federal Fluminense, Niteroi, Brazil, April 28, 2005.

13. **Quark-Gluon-Plasma, a new state of matter**
    Facultad de Ciencias Físico, Matemáticas y Naturales, Universidad Nacional de San Luis, San Luis, Argentina, December 15, 2004.

14. **Quark-Gluon-Plasma: What is that ?**
    Facultad de Ciencias, Universidad de los Andes, Bogotá, Colombia, July 14, 2004.

15. **The LHCb/CBPF Collaboration**
    Facultad de Ciencias, Universidad de los Andes, Bogotá, Colombia, March 31^{st}, 2003.

16. **Pion and Kaon parton distribution functions in the meson cloud model**
    Physics department, Universidad Federal Fluminense, Niteroi, Brazil, Nov 13, 2002.

17. **Charm photoproduction**
    Facultad de Ciencias, Universidad de los Andes, Bogotá, Colombia, May 6^{th}, 2002.

18. **On the structure of Kaons and Hiperons in the Meson Cloud Model**
    Facultad de Ciencias, Universidad de los Andes, Bogotá, Colombia, October 20^{th} 2001.

19. **Kaons and Hyperons: what we known and what we can know ?**
    Institute of Nuclear Sciences, Universidad Nacional Autónoma de México, Mexico DF, September 5^{th} 2001.

20. **Hadron structure and virtual meson-baryon and meson-meson states.**
    Seminar at the Charm physics group at LAFEX, CBPF. July 9 2001.

21. **On the structure of pions and kaons**.
    Physics Department, Los Andes University, Santa Fé de Bogotá, Colombia, September 2000.

22. **Non-perturbative contributions to hadron structure**.
    Coloquium of the Physics Department, Universidad Nacional, Santa Fé de Bogotá, Colombia, May 2000.

23. $\Lambda_c^+ - \Lambda_c^-$ **production asymmetries in E791**.
Physics Department, Los Andes University, Santa Fé de Bogotá, Colombia, March 2000.

24. **Particle antiparticle production asymmetries in hadron-hadron interactions**.
Physics Department, Los Andes University, Santa Fé de Bogotá, Colombia, October 1999.

25. **Non-perturbative structure of nucleons**.
Physics Department, Los Andes University, Santa Fé de Bogotá, Colombia, September 1999.

26. **On the $\bar{d} - \bar{u}$ asymmetry in the nucleon sea and the Gottfried Sum Rule violation.**
Coloquium of the Physics Department, Los Andes University, Santa Fé de Bogotá, Colombia, August 1999.

27. **The structure of the hadron's sea: Intrinsic and extrinsic seas.**
Institute of Nuclear Sciences, Universidad Nacional Autónoma de México, Mexico DF, October 1998

28. **The intrinsic sea of baryons and mesons.**
Institute of Physics, Benemérita Universidad Autónoma de Puebla, Puebla, México, October 1998.

29. **Hadronic fluctuations and the proton sea.**
Faculty of Sciences, Benemérita Universidad Autónoma de Puebla, Puebla, México, October 1998.

30. $\Lambda_c^+ - \Lambda_c^-$ **production asymmetry in the E791.**
LAFEX, CBPF, Rio de Janeiro, Brazil, June 1998.

31. **Strange / antistrange asymmetry in the nucleon sea.**
Department of Particles and Fields, CBPF, Rio de Janeiro, Brazil, May 1998.

32. **Hyperon polarization and recombination models.**
Department of Physics, Pontificia Universidade Católica (PUC), Rio de Janeiro, Brazil, March 1996.

33. **Semi classical effects of chiral anomaly.**
Department of Particles and Fields, CBPF, Rio de Janeiro, Brazil, July 1995.

TALKS AND POSTERS PRESENTED AT SCIENTIFIC MEETINGS

1. **The strange asymmetry of the proton sea**
   Thematic talk at the XII Mexican Workshop on Particles and Fields 2009, Nov. 5 - 14, 2009, Mazatlán, Mexico

2. **Probability and Statistics for Particle Physics**
   Course at the Mini-courses Session of the XII Mexican Workshop on Particles and Fields 2009, Nov. 5 - 14, 2009, Mazatlán, Mexico

3. **Charm physics at LHCb**
   Talk in representation of the LHCb Collaboration at the 12^{th} International Conference on B-Physics at Hadron Machines - Beauty 2009, Heidelberg, Germany, Sept. 7 - 11, 2009.

4. **High precision Standard Model Physics**
   Review talk at the XIII Mexican School of Particles and Fields, San Carlos, Sonora, México, October 6 - 11, 2008.

5. **GRID at CBPF**
   J. Magnin.
   Invited talk at the I Workshop Dark Energy Survey (DES) Brazil (Scientific and technical meeting), Rio de Janeiro, Brazil, March 19 - 20, 2007.

6. **Parton distribution functions of pions and kaons**
   C. Avila, J. Magnin and J.C. Sanabria.
   Poster at the Hadron/RANP 2004, Angra dos Reis, Brazil, March 28 - April 3, 2004

7. **Parton distribution functions of pions and kaons in the meson cloud model**
   C. Avila, J. Magnin and J.C. Sanabria.
   Poster at the XXIV National meeting of the particles and fileds physics division of the Brazilian Physics Society, Caxambú, Brazil, September 30 - October 4, 2003.

8. **Charm particle production in hadronic collisions**
   C. Avila, J. Magnin and L.M. Mendoza-Navas
   Poster at the XXIV National meeting of the particles and fileds physics division of the Brazilian Physics Society, Caxambú, Brazil, September 30 - October 4, 2003.

9. **Parton distribution functions of pions and kaons in the meson cloud model**
   C. Avila, J. Magnin and J.C. Sanabria.
   Poster at the XII André Swieca summer school on particles and fields, Campos do Jordão, january 12-25, 2003.

10. **Parton distribution functions in pions and kaons**
    C. Avila, J. Magnin and J.C. Sanabria.
    Poster at the SILAFAE IV, Aguas de Lindoia, Brazil, October 13-17, 2002.

11. **Phenomenology of charm meson hadroproduction**
    C. Avila, J. Magnin and L.M. Mendoza Navas.
    Poster at the SILAFAE IV, Aguas de Lindoia, Brazil, October 13-17, 2002.

12. **Parton distribution functions in pions and kaons**
    C. Avila, J. Magnin and J.C. Sanabria.
    Poster at the XXIII National meeting of the particles and fileds physics division of the Brazilian Physics Society, Aguas de Lindoia, Brazil, October 15-17, 2002.

13. **Charm photoproduction in fixed target experiments.**
    Plenary talk at the Annual Meeting of the Particle Physics Division of the Mexican Physical Society, July 4-5, 2002.

14. **Charge asymmetries in charm photoproduction.**
    J. Magnin, E. Cuautle, G. Herrera and A. Sanchez-Hernandez.
    Poster at Hadron-2002, Bento Gonçalves, Brazil, April 10-14, 2002.

15. $\Lambda_c^+ - \Lambda_c^-$ **production asymmetries in two component models.**
    J. Magnin and L.M. Mendoza.
    Talk at the SILAFAE III, Cartagena de Indias, Colombia, April 2-8, 2000.

16. $\Lambda_c^+ - \Lambda_c^-$ **asymmetry in π^--nucleon interactions.**
    J. Magnin by the E791 Collaboration.
    Talk at the XIX Encontro Nacional de Física de Partículas e Campos, Caxambu, Brazil, August 10^{th}-14^{th}, 1998.

17. **Charm yields and expectations for E831/FOCUS.**
    J.C. Anjos, A.F. Barbosa, I. Bediaga, C. Gobel, E. Linares, J. Magnin, J.M. Miranda, A.C. dos Reis, A. Sanchez and F.R.A. Simão, N. Barros de Olivera and I.M. Pepe.
    Poster at the XIX Encontro Nacional de Física de Partículas e Campos, Caxambu, Brazil, August 10^{th}-14^{th}, 1998.

18. **Estado final do estudo de assimetrias na produção de híperons em interações pion-nucleon à 500 GeV/c no experimento E791.**
    J. Magnin, F.R.A. Simão, J. Solano and the E791 Collaboration.
    Poster at the XIX Encontro Nacional de Física de Partículas e Campos, Caxambu, Brazil, August 10^{th}-14^{th}, 1998.

19. **Quark anti-quark asymmetries in the nucleon sea.**
H.R. Christiansen and J. Magnin.
Poster at the Quark Matter'97, Tsukuba, Japan, December 1^{st} to 5^{th}, 1997.

20. **Fotoprodução de charme: a experiência E831.**
J.C. Anjos, A.F. Barbosa, I. Bediaga, C. Gobel, J. Magnin, J.M. Miranda, A.C. dos Reis, A. Sanchez and F.R.A. Simão.
Poster at the XVIII Encontro Nacional de Física de Partículas e Campos, ENFPC'97 (1997).

21. **Hyperon Polarization: Theory and Experiments.**
J, Magnin and F.R.A. Simão.
Talk presented at Workshop on Particles and Fields and Phenomelogy of Fundamental Interactions, Puebla, Mexico, October 30^{th}-November 3^{rd}, 1995.

22. **Semiclassical Effects of Chiral Anomaly.**
J. Magnin and L. Masperi.
Poster at the 79 National Meeting of Argentine Physics Association (AFA), Cordoba, Argentina, 1994.

23. **Quantization of Anomalous Models.**
J. Magnin and L. Masperi.
Poster at the 77 National Meeting of AFA, Buenos Aires, Argentina, 1992.

24. **Anomalies and Classical Motion Equations.**
J. Magnin and L. Masperi.
Talk at the 75 National Meeting of AFA, La Plata, Argentina, 1990.

25. **Effect of Energetic Microheterogeneities on Diffusion of Gases through Glassy Polymers.**
J. Horas, E, Reyes and J. Magnin.
Poster at the 73 National Meeting of AFA, Mar del Plata, Argentina, 1988.

PAPERS PUBLISHED IN PROCEEDINGS

1. **The strange asymmetry of the proton sea**
J. Magnin, C. Ávila and J.C. Sanabria
Proceedings of the XII Mexican Workshop on Particles and Fields 2009, Nov. 5 - 14, 2009, Mazatlán, Mexico

2. **Probability and Statistics for Particle Physics**
   J. Magnin
   Proceedings of the XII Mexican Workshop on Particles and Fields 2009, Nov. 5 - 14, 2009, Mazatlán, Mexico

3. **Charm physics at LHCb**
   J. Magnin, on behalf of the LHCb Collaboration PoS (Beauty 2009) 026, Proceedings of the 12^{th} International Conference on B-Physics at Hadron Machines - Beauty 2009, Heidelberg, Germany, Sept. 7 - 11, 2009.

4. **Off-Mass-Shell Effects On Collisional Parton Energy Loss In A Finite QCD Media**
   L. M. Montano Zetina, A. Ayala, J. Magnin and E. Rojas, AIP Conf. Proc. **1116** (2009) 437.

5. **High precision Standard Model Physics**
   J. Magnin
   AIP Conf. Proc. **1116** (2009) 69

6. **Angra neutrino project: Status and plans.**
   J.C. Anjos, A.F. Barbosa, R.Z. Funchal, E. Kemp, J. Magnin, H. Nunokawa, O.L.G. Peres, D. Reyna, R.C. Shellard.
   7^{th} international Workshop on eutrino Factories and Superbeams (NuFact 05). Nucl. Phys. Proc. Suppl **155** (2006) 231.

7. **Test station for the CARIOCA FE-chip of the LHCb muon detector.**
   E. Polycarpo *et al.*
   Heidelberg 2005, Electronics for LHC and future experiments 87.

8. **Charge asymmetries in charm photoproduction.**
   J. Magnin, E. Cuautle, G. Herrera and A. Sanchez-Hernández.
   Proceedings of the Hadron-2002. World Scientific.

9. **Producción de mesones D en colisiones hadrónicas.**
   L.M. Mendoza-Navas, C. Avila and J. Magnin.
   Congreso Nacional de Física, Manizales, Colombia, Setembro 24-28, 2001

10. **Rare and Forbidden Decays of D Mesons.**
    D. J. Summers *et al* (Fermilab E791 Collaboration).
    Proceedings of the XXXVI Rencontre de Moriond, Electroweak Interactions and Unified Theories conference, Les Arcs, France, 10–17 March 2001, hep-ex/0105028.

11. **The light antiquark asymmetry of the proton in a pion cloud model approach.**
    H.R. Christiansen and J. Magnin, Proceedings of Hadron Physics 2000, 435 (2000).

12. **Extrancting the strange quark distribution in Hyperons and Kaons from the $s - \bar{s}$ asymmetry in nucleons.**
E. Cuautle and J. Magnin, Proceedings of Heavy Quark 2000, 623 (2000).

13. **Charge asymmetries in charm photoproduction.**
E. Cuautle, G. Herrera, A. Sanchez-Hernandez and J. Magnin, Proceedings of Heavy Quark 2000, 601 (2000).

14. $D^\circ - \bar{D}^\circ$ **mixing and CP violation from FOCUS experiment.**
E831/FOCUS Collaboration.
Proceedings of the XXX International Conference on High Energy Physics (ICHEP'2000), Osaka, Japan, July 27 - August 2, 2000.

15. **Preliminary results on charm meson spectroscopy.**
E831/FOCUS Collaboration.
Proceedings of the DPF'2000, 9-12 Aug. 2000, Columbus (Ohio), USA, hep-ex/0011072.

16. **Results on charmed meson spectroscopy from FOCUS.**
E831/FOCUS Collaboration.
Proceedings of the ICHEP'2000, Osaka, Japan, hep-ex/0011044.

17. **New FOCUS results on charm mixing and CP violation.**
E831/FOCUS Collaboration.
International Conference on CP Violation Physics, Ferrara, Italy, 18-22 Sep 2000, Nucl. Phys. Proc. Suppl. **99** (2001) 191.

18. **Search for rare and forbidden charm meson decays at Fermilab E791.**
D. J. Summers *et al.* (Fermilab E791 Collaboration).
35^{th} Reencontres de Moriond: Electroweak Interactions and Unified Theories, Les Arcs, France, 11-18 March 2000, hep-ex/0010002.

19. $s - \bar{s}$ **asymmetry in nucleons and the strange quark distribution in kaons and hyperons.**
E. Cuautle and J. Magnin.
Proceedings of the 9^{th} Mexican School on Particles and Fields, Metepec, Puebla, Mexico, 9-19 Aug 2000 pag. 343.

20. $\Lambda_c^+ - \Lambda_c^-$ **production asymmetries in two-component models**.
J. Magnin and L.M. Mendoza-Navas.
Proceedings of the III Latin American Symposium in High Energy Physics, Cartagena de Indias, Colombia, 2-8 April 2000. Cartagena de Indias 2000, High Energy Physis, hep-ph/0009198. Published in JHEP.

21. **The upgraded outer EM calorimeter of FOCUS at Fermilab.**
E831/FOCUS Collaboration.
Proceedings of the VIII International Conference on Calorimetry in HEP, Lisbon, Portugal, June 13-19 1999. hep-ex/9912066.

22. **Particle - antiparticle asymmetries in the production of baryons in 500 GeV/c π^--nucleon interactions.**
E791 Collaboration.
Proceedings of the Hyperon'99 Conference, Fermilab, September 1999.

23. **CP violation, $D^0 - \bar{D}^0$ mixing, rare and forbidden decays in FOCUS.**
E831/FOCUS Collaboration.
Proceedings of The Chicago Conference on Kaon Physics, Chicago, USA, 24^{th} - 26^{th} June 1999.

24. **Preliminary FOCUS results on charmed hadrons spectroscopy.**
E831/FOCUS Collaboration.
Proceedings of the XV International Conference on Particle and Nuclei, Uppsala, Sweden, 10^{th} - 16^{th} June 1999.

25. **Photoproduction of meson states in E687 & FOCUS.**
E831/FOCUS Collaboration.
Proceedings of the Workshop on Hadron Spectroscopy, Frascati, Italy, 8^{th} - 12^{th} March 1999.

26. **E791 results on hadroproduction of charm from 500 GeV $\pi^- - N$ interactions.**
E791 Collaboration.
Proceedings of the Heavy Quark '98 Conference, Chicago, USA, 10^{th} - 12^{th} October 1998.

27. **Dalitz analysis, rare decays, and charmed baryons at FOCUS and E687.**
E831/FOCUS Collaboration.
Proceedings of the Heavy Quark '98 Conference, Chicago, USA, 10^{th} - 12^{th} October 1998.

28. **The FOCUS spectrometer and an overview of hadronic decays in FOCUS.**
E831/FOCUS Collaboration.
Proceedings of the Heavy Quark '98 Conference, Chicago, USA, 10^{th} - 12^{th} October 1998.

29. **Hadronic charm decays at FOCUS.**
E831/FOCUS Collaboration.

Proceedings of the Heavy Quark '98 Conference, Chicago, USA, 10^{th} - 12^{th} October 1998.

30. **FOCUS: First signals and prospects.**
E831/FOCUS Collaboration.
Proceedings of the ICHEP'98, Vancouver, Canada, 23^{th} - 29^{th} July 1998.

31. **Overview of FOCUS and a report on charmed mesons in FOCUS.**
E831/FOCUS Collaboration.
Proceedings of the III International Conference on Hyperons, Charm and Beauty Hadrons, Genova, Italy, 30^{th} June - 3^{th} July 1998.

32. **Charmed baryons and semileptonic physics at FOCUS.**
E831/FOCUS Collaboration.
Proceedings of the III International Conference on Hyperons, Charm and Beauty Hadrons, Genova, Italy, 30^{th} June - 3^{th} July 1998.

33. **Hadronic fluctuation and quark/anti-quark asymmetries in the nucleon sea.**
H.R. Christiansen and J. Magnin.
Proceedings of the International Workshop on Hadron Physics'98 (1998), Florianópolis, Brazil, April 1998. Ed. World Scientific.

34. **Asymmetry studies in $\Lambda^0/\bar{\Lambda}^0$, Ξ^-/Ξ^+ and Ω^-/Ω^+ production.**
J.C. Anjos, J. Magnin, F.R.A. Simão and J. Solano.
Proceedings of II Silafae, pag. 540, AIP Conf. Proc. No. 444 (1998).

35. **A study of baryon production asymmetries in the E791.**
E791 collaboration, J. Magnin, F.R.A. Simão and J. Solano.
Proceedings of the XVIII Encontro Nacional de Física de Partículas e Campos, ENFPC'97, pag. 503 (1997).

36. **Hyperon production asymmetries in 500 GeV/c pion nucleus interactions.**
E791 collaboration, J. Magnin, F.R.A. Simão and J. Solano.
Proceedings of the V International Workshop on Relativistic Aspects of Nuclear Physics '97, RANP'97, pag. 361 (1997). World Scientific.

37. **The Charm of the Proton and the Λ_c^+ Production.**
J.C. Anjos, G. Herrera, J. Magnin and F.R.A. Simão.
Proceedings of I Latin American Symposium on High Energy Physics, SILAFAE, pag. 231. AIP Conf. Proc. No. 400 (1996).

38. **The Λ_0 Polarization and the Recombination Mechanism.**
G. Herrera, J. Magnin, Luis M. Montaño and F.R.A. Simão.
Proceedings of I Latin American Symposium on High Energy Physics, SILAFAE, pag. 261. AIP Conf. Proc. No. 400 (1996).

39. **Aspects of Λ_0 Polarization in p-p Collisions.**
J. Magnin, F.R.A. Simão, G. Herrera and L.M. Montaño.
Proceedings of the International Workshop on Hadron Physics'96, pag. 398, World Scientific (1996).

40. **Hyperon Polatization: Theory and Experiments.**
J. Magnin, F.R.A. Simão.
Proceedings of the Workshop on Particles and Fields and Phenomelogy of Fundamental Interactions, pag. 401, AIP Conf. Proc. No. 359 (1995).

PAPERS PUBLISHED IN REFEREED JOURNALS

- **Particle physics phenomenology**

1. A. Ayala, J. Jalilian-Marian, J. Magnin, A. Ortiz, G. Paic and M. E. Tejeda-Yeomans, **Three and two-hadron correlations in $\sqrt{s_{NN}} = 200$ GeV proton-proton and nucleus-nucleus collisions** Phys. Rev. Lett. **104**, 042301 (2010) (See accompanying Physics Synopsis by the American Physical Society in http://physics.aps.org/synopsis-for/10.1103/PhysRevLett.104.042301)
2. A. Ayala, J. Magnin, L. M. Montano and G. T. Sanchez, **Dynamical heavy-quark recombination and the non-photonic single electron puzzle at RHIC** Phys. Rev. C **80**, 064905 (2009)
3. A. Ayala, E. Cuautle, G. Herrera Corral, J. Magnin and L. M. Montano, **Spin alignment of vector mesons in heavy ion and proton - proton collisions** Phys. Lett. B **682**, 408 (2010)
4. C. Avila, I. Monroy, J. C. Sanabria and J. Magnin, **On the $s - \bar{s}$ asymmetry of the nucleon sea** arXiv:0710.4110 [hep-ph].
5. A. Ayala, J. Magnin, L. M. Montano and E. Rojas, **Collisional parton energy loss in a finite size QCD medium revisited: Off mass-shell effects** Phys. Rev. C **77**, 044904 (2008)
6. A. Ayala, E. Cuautle, J. Magnin and L. M. Montano, **Proton and pion transverse spectra at RHIC from radial flow and finite size effects** Phys. Rev. C **74**, 064903 (2006)

7. A. Ayala, E. Cuautle, J. Magnin, L. M. Montano and A. Raya, **Finite size effects on pion spectra in relativistic heavy-ion collisions** Phys. Lett. B **634**, 200 (2006)

8. G. Herrera, J. Magnin and L. M. Montano, **Longitudinal $\bar{\Lambda}_0$ polarization in heavy ion collisions as a probe for QGP formation**, Eur. Phys. J. C **39**, 95 (2005)

9. A. Ayala, J. G. Contreras and J. Magnin, **Mass of the ρ^0 meson in ultra-relativistic heavy-ion collision**, Phys. Lett. B **603**, 165 (2004)

10. A. Ayala and J. Magnin, **ρ propagation and dilepton production at finite pion density and temperature**, Phys. Rev. C **68**, 014902 (2003)

11. C. Avila, J. C. Sanabria and J. Magnin, **Pion and kaon parton distribution functions in a meson cloud model**, Phys. Rev. D **67**, 034022 (2003) [Erratum-ibid. D **68**, 079902 (2003)]

12. C. Avila, J. Magnin and J. C. Sanabria, **Low Q^2 wave functions of pions and kaons and their parton distribution functions**, Phys. Rev. D **66**, 034016 (2002)

13. J. C. Anjos, J. Magnin and G. Herrera, **On the intrinsic charm and the recombination mechanisms in charm hadron production**, Phys. Lett. B **523**, 29 (2001)

14. G. Herrera, A. Sanchez-Hernandez, E. Cuautle and J. Magnin, **Production asymmetry of D mesons in $\gamma - p$ collisions**, Phys. Lett. B **505**, 36 (2001)

15. H. R. Christiansen and J. Magnin, **Gluon distributions in nucleons and pions at a low resolution scale**, Phys. Rev. D **63**, 014001 (2001)

16. J. Magnin and H. R. Christiansen, **The anti-d anti-u asymmetry of the proton in a pion cloud model approach**, Phys. Rev. D **61**, 054006 (2000)

17. H. R. Christiansen and J. Magnin, **Strange/anti-strange asymmetry in the nucleon sea**, Phys. Lett. B **445**, 8 (1998)

18. E. Cuautle, G. Herrera and J. Magnin, **$D^{\pm}$ and D^0 ($\bar{D}^0$) production asymmetries in $\pi - p$ collisions**, Eur. Phys. J. C **2**, 473 (1998)

19. G. Herrera and J. Magnin, **$\Lambda_c - \bar{\Lambda}_c$ production asymmetries in $p - p$ and $\pi^- - p$ collisions**, Eur. Phys. J. C **2**, 477 (1998)

20. J. dos Anjos, G. Herrera, J. Magnin and F. R. A. Simao, **Production and polarization of Λ_c^+ and the charm of the proton**, Phys. Rev. D **56**, 394 (1997)

21. G. Herrera, J. Magnin, L. M. Montano and F. R. A. Simao, **The Λ_0 polarization and the recombination function**, Phys. Lett. B **382**, 201 (1996).

22. A. Della Selva, J. Magnin and L. Masperi, **Bargmann-Michel-Telegdi equation and one-particle relativistic approach**, Nuovo Cim. B **111**, 855 (1996)

23. A. Della Selva, J. Magnin and L. Masperi, **BRST symmetry in chiral electrodynamics**, Phys. Rev. D **47**, 1685 (1993).

24. J. Magnin and L. Masperi **Anomalies and Classical Motion Equations**, Ann. AFA **2** 63 (1990).

25. J. Horas, E. Reyes and J. Magnin, **Effect of Microheterigeneities on Diffusion of Gases through Glassy Polymers**, J. Pol. Sc. **B**, Pol. Phys. **28**, 1153 (1990).

- **LHCb Collaboration**

1. A. A. Alves *et al.* [The LHCb Collaboration], **Roadmap for selected key measurements of LHCb** arXiv:0912.4179.

2. A. A. Alves *et al.* [LHCb Collaboration], **The Lhcb Detector At The LHC** JINST **3**, S08005 (2008).

- **ν-Angra Collaboration**

1. J. C. Anjos *et al.*, **Angra dos Reis reactor neutrino oscillation experiment**, Braz. J. Phys. **36**, 1118 (2006).

2. J. C. Anjos *et al.*, **Angra neutrino project: Status and plans**, Nucl. Phys. Proc. Suppl. **155**, 231 (2006)

- **E831/FOCUS Collaboration**

1. J. M. Link *et al.* [The FOCUS Collaboration], **The $K^-\pi^+$ S-wave from the $D^+ \to K^-\pi^+\pi^+$ decay** Phys. Lett. B **681**, 14 (2009) [arXiv:0905.4846 [hep-ex]].

2. J. M. Link *et al.* [FOCUS Collaboration], **Study of Cabibbo Suppressed Decays of the D_s^+ Charmed-Strange Meson involving a K_S^0** Phys. Lett. B **660**, 147 (2008)

3. J. M. Link *et al.* [FOCUS Collaboration], **Search for a pentaquark decaying to $\Xi - \pi -$** Phys. Lett. B **661**, 14 (2008)

4. J. M. Link *et al.* [FOCUS Collaboration], **Dalitz plot analysis of the $D^+ \to K^-\pi^+\pi^+$ decay in the FOCUS experiment** Phys. Lett. B **653**, 1 (2007)

5. J. M. Link *et al.* [FOCUS Collaboration], **Study of the $D^0 \to pi^-pi^+pi^-pi^+$ decay** Phys. Rev. D **75**, 052003 (2007)

6. J. M. Link *et al.* [FOCUS Collaboration], **A Non-parametric approach to measuring the $K^-\pi^+$ amplitudes in $D^+ \to K^-K^+\pi^+$ decay** Phys. Lett. B **648**, 156 (2007)
7. J. M. Link *et al.* [FOCUS Collaboration], **Search for a pentaquark decaying to pK^0_S** Phys. Lett. B **639**, 604 (2006)
8. J. M. Link *et al.* [FOCUS Collaboration], **New measurement of BR($D^+ \to \rho^0\mu^+\nu$)/BR($D^+ \to anti-K^{*0}\mu^+\nu$) branching ratio** Phys. Lett. B **637**, 32 (2006)
9. J. M. Link *et al.* [FOCUS Collaboration], **Study of the decay asymmetry parameter and CP violation parameter in the $\Lambda_c^+ \to \Lambda\pi^+$ decay** Phys. Lett. B **634**, 165 (2006)
10. J. M. Link *et al.* [FOCUS Collaboration], **A non-parametric approach to the $D^+ \to anti-K^{*0}\mu^+\nu$ form factors** Phys. Lett. B **633**, 183 (2006)
11. J. M. Link *et al.* [FOCUS Collaboration], **Search for $\Lambda_c^+ \to pK^+\pi^-$ and $D_s^+ \to K^+K^+\pi^-$ using genetic programming event selection** Phys. Lett. B **624**, 166 (2005)
12. J. M. Link *et al.* [FOCUS Collaboration], **Search for a strongly decaying neutral charmed pentaquark**, Phys. Lett. B **622**, 229 (2005)
13. J. M. Link *et al.* [FOCUS Collaboration], **Search for T violation in charm meson decays**, Phys. Lett. B **622**, 239 (2005)
14. J. M. Link *et al.* [FOCUS Collaboration], **Study of Λ_c^+ Cabibbo favored decays containing a Λ baryon in the final state**, Phys. Lett. B **624**, 22 (2005)
15. J. M. Link *et al.* [FOCUS Collaboration], **A measurement of the D_s^+ lifetime** Phys. Rev. Lett. **95**, 052003 (2005)
16. J. M. Link *et al.* [FOCUS Collaboration], **Hadronic mass spectrum analysis of $D^+ \to K^-\pi^+\mu^+\nu$ decay and measurement of the $K^*(892)_0$ mass and width**, Phys. Lett. B **621**, 72 (2005)
17. J. M. Link *et al.* [FOCUS Collaboration], **Application of genetic programming to high energy physics event selection** Nucl. Instrum. Meth. A **551**, 504 (2005)
18. J. M. Link *et al.* [FOCUS Collaboration], **Measurement of the doubly Cabibbo suppressed decay $D^0 \to K^+\pi^-$ and a search for charm mixing**, Phys. Lett. B **618**, 23 (2005)
19. J. M. Link *et al.* [FOCUS Collaboration], **Study of the $D^0 \to K^+K^-\pi^+\pi^-$ decay**, Phys. Lett. B **610**, 225 (2005)

20. J. M. Link *et al.* [FOCUS Collaboration], **A study of $D^0 \to K^0_s K^0_s X$ decay channels**, Phys. Lett. B **607**, 59 (2005)

21. J. M. Link *et al.* [FOCUS Collaboration], **Measurement of the branching ratio of the decay $D^0 \to \pi^- \mu^+ \nu$ relative to $D^0 \to K^- \mu^+ \nu$**, Phys. Lett. B **607**, 51 (2005)

22. J. M. Link *et al.* [FOCUS Collaboration], **Analysis of the semileptonic decay $D^0 \to \bar{K}^0 \pi^- \mu^+ \nu$**, Phys. Lett. B **607**, 67 (2005)

23. J. M. Link *et al.* [FOCUS Collaboration], **Measurements of the Q^2 dependence of the $D^0 \to K^- \mu^+ \nu$ and $D^0 \to \pi^- \mu^+ \nu$ form factors** Phys. Lett. B **607**, 233 (2005) [arXiv:hep-ex/0410037].

24. J. M. Link *et al.* [FOCUS Collaboration], **Study of the doubly and singly Cabibbo suppressed decays $D^+ \to K^+ \pi^+ \pi^-$ and $D^+_s \to K^+ \pi^+ \pi^-$**, Phys. Lett. B **601**, 10 (2004)

25. J. M. Link *et al.* [FOCUS Collaboration], **Measurement of the ratio of the vector to pseudoscalar charm semileptonic decay rate $\Gamma(D^+ \to \bar{K}^{*0} \mu^+ \nu/\mu)/\Gamma(D^+ \to \bar{K}^0 \mu^+ \nu/\mu)$**, Phys. Lett. B **598**, 33 (2004)

26. J. M. Link *et al.* [FOCUS Collaboration], **Measurements of six-body hadronic decays of the D^0 charmed meson**, Phys. Lett. B **586**, 21 (2004)

27. J. M. Link *et al.* [FOCUS Collaboration], **New measurements of the $D^+_s \to \phi \mu^+ \nu$ form factor ratios**, Phys. Lett. B **586**, 183 (2004)

28. J. M. Link *et al.* [FOCUS Collaboration], **Measurement of masses and widths of excited charm mesons D^*_2 and evidence for broad states**, Phys. Lett. B **586**, 11 (2004)

29. J. M. Link *et al.* [FOCUS Collaboration], **Dalitz plot analysis of D^+_s and D^+ decay to $\pi^+ \pi^- \pi^+$ using the K-matrix formalism**, Phys. Lett. B **585**, 200 (2004)

30. J. M. Link *et al.* [FOCUS Collaboration], **Charm-anticharm baryon production asymmetries in photon nucleon interactions**, Phys. Lett. B **581**, 39 (2004)

31. J. M. Link *et al.* [FOCUS Collaboration], **Study of hadronic five-body decays of charmed mesons involving K^0_s**, Phys. Lett. B **586**, 191 (2004)

32. J. M. Link *et al.* [FOCUS Collaboration], **Study of the decay mode $D^0 \to K^- K^- K^+ \pi^+$**, Phys. Lett. B **575**, 190 (2003)

33. J. M. Link *et al.* [FOCUS Collaboration], **Search for rare and forbidden 3-body di-muon decays of the charmed mesons D^+ and D^+_s**, Phys. Lett. B **572**, 21 (2003)

34. J. M. Link *et al.* [FOCUS Collaboration], **Measurements of Ξ_c^+ branching ratios**, Phys. Lett. B **571**, 139 (2003)

35. J. M. Link *et al.* [FOCUS Collaboration], **Studies of correlations between D and anti-D mesons in high energy photoproduction**, Phys. Lett. B **566**, 51 (2003)

36. J. M. Link *et al.* [FOCUS Collaboration], **Measurement of the Ω_c^0 lifetime**, Phys. Lett. B **561**, 41 (2003)

37. J. M. Link *et al.* [FOCUS Collaboration], **Study of the Cabibbo-suppressed decay modes $D^0 \to \pi^-\pi^+$ and $D^0 \to K^-K^+$**, Phys. Lett. B **555**, 167 (2003)

38. J. M. Link *et al.* [FOCUS Collaboration], **Study of hadronic five-body decays of charmed mesons**, Phys. Lett. B **561**, 225 (2003)

39. J. M. Link *et al.*, **Charm system tests of CPT and Lorentz invariance with FOCUS**, Phys. Lett. B **556**, 7 (2003)

40. J. M. Link *et al.* [FOCUS Collaboration], **Observation of a 1750-MeV/c^2 enhancement in the diffractive photoproduction of K^+K^-**, Phys. Lett. B **545**, 50 (2002)

41. J. M. Link *et al.* [FOCUS Collaboration], **New measurements of the $D^+ \to \bar{K}^{*0}\mu^+\nu$ form factor ratios**, Phys. Lett. B **544**, 89 (2002)

42. J. M. Link *et al.* [Focus Collaboration], **A new measurement of the Ξ_c^0 lifetime**, Phys. Lett. B **541**, 211 (2002)

43. J. M. Link *et al.* [Focus Collaboration], **New measurements of the $\Gamma(D^+ \to \bar{K}^{*0}\mu^+\nu)/\ \Gamma(D^+ \to K^-\pi^+\pi^+)$ and $\Gamma(D_s^+ \to \phi\mu^+\nu)/\ \Gamma(D_s^+ \to \phi\pi^+)$ branching ratios**, Phys. Lett. B **541**, 243 (2002)

44. J. M. Link *et al.* [FOCUS Collaboration], **Measurement of the D^+ and D_s^+ decays into $K^+K^-K^+$**, Phys. Lett. B **541**, 227 (2002)

45. J. M. Link *et al.* [FOCUS Collaboration], **Measurements of relative branching ratios of Λ_c^+ decays into states containing Σ**, Phys. Lett. B **540**, 25 (2002)

46. J. M. Link *et al.* [FOCUS Collaboration], **The target silicon detector for the FOCUS spectrometer**, Nucl. Instrum. Meth. A **516**, 364 (2004)

47. J. M. Link *et al.* [FOCUS Collaboration], **New measurements of the D^0 and D^+ lifetimes**, Phys. Lett. B **537**, 192 (2002)

48. J. M. Link *et al.* [FOCUS Collaboration], **Evidence for new interference phenomena in the decay $D^+ \to K^-\pi^+\mu^+\nu$**, Phys. Lett. B **535**, 43 (2002)

49. J. M. Link *et al.* [FOCUS Collaboration], **A high statistics measurement of the Λ_c^+ lifetime**, Phys. Rev. Lett. **88**, 161801 (2002)

50. J. M. Link *et al.* [FOCUS Collaboration], **Measurement of natural widths of Σ_c^0 and Σ_c^{++} baryons**, Phys. Lett. B **525**, 205 (2002)

51. J. M. Link *et al.* [FOCUS Collaboration], **A new measurement of the Ξ_c^+ lifetime**, Phys. Lett. B **523**, 53 (2001)

52. J. M. Link *et al.* [FOCUS Collaboration], **Reconstruction of Vees, kinks, Ξ^-'s, and Ω^-'s in the FOCUS spectrometer**, Nucl. Instrum. Meth. A **484**, 174 (2002)

53. J. M. Link *et al.* [FOCUS Collaboration], **Search for CP violation in the decays $D^+ \to K_s\pi^+$ and $D^+ \to K_sK^+$**, Phys. Rev. Lett. **88**, 041602 (2002) [Erratum-ibid. **88**, 159903 (2002)]

54. J. M. Link *et al.* [FOCUS Collaboration], **Cerenkov particle identification in FOCUS**, Nucl. Instrum. Meth. A **484**, 270 (2002)

55. J. M. Link *et al.* [FOCUS Collaboration], **A measurement of branching ratios of D^+ and D_s^+ hadronic decays to four-body final states containing a K_s**, Phys. Rev. Lett. **87**, 162001 (2001)

56. J. M. Link *et al.* [FOCUS Collaboration], **Measurement of the relative branching ratio $BR(\Xi_c^+ \to p^+K^-\pi^+)/BR(\Xi_c^+ \to \Xi^-\pi^+\pi^+)$**, Phys. Lett. B **512**, 277 (2001)

57. J. M. Link *et al.* [FOCUS Collaboration], **A study of the decay $D^0 \to K^+\pi^-$**, Phys. Rev. Lett. **86**, 2955 (2001)

58. S. Sarwar *et al.* [FOCUS Collaboration], **Preliminary results on charmed meson spectroscopy**, Int. J. Mod. Phys. A **16S1B**, 477 (2001)

59. S. Bianco *et al.* [FOCUS Collaboration], **New FOCUS results on charm mixing and CP violation**, Nucl. Phys. Proc. Suppl. **99B**, 191 (2001)

60. J. M. Link *et al.* [FOCUS Collaboration], **Search for CP violation in D^0 and D^+ decays**, Phys. Lett. B **491**, 232 (2000) [Erratum-ibid. B **495**, 443 (2000)]

61. J. M. Link *et al.* [FOCUS Collaboration], **Measurements of the Σ_c^0 and Σ_c^{++} mass splittings**, Phys. Lett. B **488**, 218 (2000)

62. J. M. Link *et al.* [FOCUS Collaboration], **A measurement of lifetime differences in the neutral D meson system**, Phys. Lett. B **485**, 62 (2000)

- **E791 Collaboration**

1. E. M. Aitala *et al.* [E791 Collaboration], **Model independent measurement of S-wave $K^-\pi^+$ systems using $D^+ \to K\pi\pi$ decays from Fermilab E791** Phys. Rev. D **73**, 032004 (2006)

2. E. M. Aitala *et al.* [Fermilab E791 Collaboration], **Differential cross sections, charge production asymmetry, and spin-density matrix elements for $D^*(2010)^{+-}$ produced in 500-GeV/c $\pi-$ nucleon interactions**, Phys. Lett. B **539**, 218 (2002)

3. E. M. Aitala *et al.* [E791 Collaboration], **Dalitz plot analysis of the decay $D^+ \to K^-\pi^+\pi^+$ and study of the $K\pi$ scalar amplitudes**, Phys. Rev. Lett. **89**, 121801 (2002)

4. E. M. Aitala *et al.* [E791 Collaboration], **Search for rare and forbidden charm meson decays $D^0 \to Vl^+l^-$ and $hhll$**, Phys. Rev. Lett. **86**, 3969 (2001)

5. E. M. Aitala *et al.* [E791 Collaboration], **Asymmetries in the production of Λ_0, Ξ^-, and Ω^- hyperons in 500-GeV/c π^- nucleon interactions**, Phys. Lett. B **496**, 9 (2000)

6. E. M. Aitala *et al.* [E791 Collaboration], **Asymmetries in the production of Λ_c^+ and Λ_c^- baryons in 500-GeV/c π^- nucleon interactions**, Phys. Lett. B **495**, 42 (2000)

7. E. M. Aitala *et al.* [E791 Collaboration], **Experimental evidence for a light and broad scalar resonance in $D^+ \to \pi^-\pi^+\pi^+$ decay**, Phys. Rev. Lett. **86**, 770 (2001)

8. E. M. Aitala *et al.* [E791 Collaboration], **Study of the $D_s^+ \to \pi^-\pi^+\pi^+$ decay and measurement of f_0 masses and widths**, Phys. Rev. Lett. **86**, 765 (2001)

9. E. M. Aitala *et al.* [E791 Collaboration], **Multidimensional resonance analysis of $\Lambda_c^+ \to pK^-\pi^+$**, Phys. Lett. B **471**, 449 (2000)

10. E. M. Aitala *et al.* [E791 Collaboration], **Search for rare and forbidden dilepton decays of the D^+, D_s^+, and D_0 charmed mesons**, Phys. Lett. B **462**, 401 (1999)

11. E. M. Aitala *et al.* [E791 Collaboration], **Total forward and differential cross sections of neutral D mesons produced in 500-GeV/c π^- nucleon interactions**, Phys. Lett. B **462**, 225 (1999)