

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Jorge Segovia
Date and place of birth: April 27, 1983 in Avila, Spain
Citizenship: Spanish
Passport number: XDB206940
Cell phone (Spain): +34 635 187048
Cell phone (USA): +1 (708) 441-9474

CURRENT PROFESSIONAL INFORMATION

Present Status: Postdoctoral researcher
Grant: Argonne National Laboratory fellowship
Length: Since October 2012
Specialization (UNESCO codes): Hadrons (221208)
Elementary Particles (221202)
Quantum Field Theory (221212)

Institution: Argonne National Laboratory
Division: Physics Division
Group: Theory Group
Address: 9700 South Cass Avenue, Argonne IL, 60439-4832 (USA)

Phone: +1 (630) 252-3442
Fax: +1 (630) 252-3903
Website: <http://www.phy.anl.gov/theory/index.html>
http://www.phy.anl.gov/theory/staff/jsegovia_webpage.html
E-mail: jsegovia@anl.gov / jorge.segonza@gmail.com

DESCRIPTION OF ACADEMIC CAREER

I am currently employed as a postdoctoral research fellow in the Physics Division at Argonne National Laboratory, working with Craig D. Roberts and Ian C. Cloët. Under the supervision of Prof. David R. Entem, I received in July 2012 my PhD from the University of Salamanca, Spain; and arrived in the USA in October, 2012. As a PhD student at the University of Salamanca, I used constituent-quark models to describe meson properties, both light and heavy. My PhD research led to 12 refereed publications in international journals and 17 conference proceedings. I have always tried to identify and use the most suitable technique to the problem at hand. This fact has led me to seek collaborations with other researchers in order to learn and master a wide variety of nonperturbative tools for solving QCD. An example is the postdoctoral position at Argonne where I am applying QCD's Dyson-Schwinger Equations to the study of hadron phenomenology. This research line has led to 4 refereed publications in international journals and 5 invited talks/seminars in different research institutions and international workshops. Moreover, I have continued working with my collaborators in Spain resulting in 4 more peer-reviewed articles and 4 contributions to international conferences.

TEACHING

Teaching Experience

Subject: Physics Applied to Biology (1st Semester in Biology Degree, University of Salamanca, Spain)
Academic year: 2011-2012
Position: Assistant teacher
Length: 45 hours

Subject: Physics Applied to Biology (1st Semester in Biology Degree, University of Salamanca, Spain)
Academic year: 2010-2011
Position: Assistant teacher
Length: 60 hours

Teaching Qualifications

- I have accreditation from the Spanish Ministry of Education which permits me to perform teaching and research activities at the rank of Assistant Professor.

Educational Innovation Projects

- “Design of activities to continuum evaluation of students in Quantum Physics”; Department of Fundamental Physics, University of Salamanca, Spain; no. ID9/177; ca. 3000 Euros/1 years.

INSTITUTIONAL RESPONSIBILITIES

23/02/2010 – 30/09/2012 Board member of the Institute of Fundamental Physics and Mathematics
Postgraduate representative
University of Salamanca, Spain

14/12/2006 – 18/12/2008 Board member of the Department of Fundamental Physics
Postgraduate representative
University of Salamanca, Spain

ORGANIZATION OF SCIENTIFIC EVENTS

Event: Theory Seminars, Theory Group, Physics Division, Argonne National Laboratory
Place and Date of celebration: Argonne, USA. Since October 2012
Position: Member of local organizing committee

Event: I Feria Iberoamericana de la Ciencia, la Tecnología y la Innovación
Place and Date of celebration: Salamanca, Spain. November 12-15, 2010
Position: Member of local organizing committee on behalf of Physics National Center of Particles, astro-particles and Nuclear (CPAN)

Event: The 21st European Conference on Few-Body Problems in Physics
Place and Date of celebration: Salamanca, Spain. August 29 - September 3, 2010
Position: Member of local organizing committee

FUNDED RESEARCH PROJECTS

1. ANL postdoctoral fellowship; Physics Division/Argonne National Laboratory (USA); no. 224765; “DSEs applied to hadron physics”; ca. 127460 dollars/2 years.
2. MINCINN PhD mobility; IFAE/Universitat Autònoma de Barcelona (Spain); no. EEBB-I-2012-03648; “EFTs of heavy quarkonium”; ca. 3140 Eur./4 months over the salary.
3. MINCINN PhD mobility; Department of Physics/University of Coimbra (Portugal); no. EEBB-I-2010-00127; “Dynamical coupled-channels study of meson spectroscopy”; ca. 5150 Eur./3 months over the salary.
4. MINCINN PhD fellowship; Department of Fundamental Physics/University of Salamanca (Spain); no. BES-2008-003186 under FPA2007-65748-C02-02 project; “Constituent-Quark Model description of heavy quark phenomenology”; ca. 62404/4 years.

RESEARCH STAYS

Institution: Universitat Autònoma de Barcelona
Department de Física and IFAE
Location: Bellaterra, Cerdanyola del Vallés, Barcelona, Spain
Length, since: 04/10/2012 until 07/31/2012
Professor in charge: Antonio Pineda
Aim: Application of Effective Field Theories of QCD to heavy mesons

Institution: University of Coimbra
Faculty of Science and Technology
Department of Physics
Location: Coimbra, Portugal
Length, since: 04/05/2010 until 07/04/2010
Professor in charge: Eef Van Beveren
Aim: Study of high excited charmonium states and its relation with the string breaking region

Institution: University of Salamanca
Faculty of Science / Physics Section
Laboratory of Ionizing Radiation
Location: Salamanca, Spain
Length, since: 08/01/2008 until: 09/15/2008
Professor in charge: Begoña Quintana Arnés
Aim: Preliminary study for the Company SENTINEL SCANNING to the development of computerized tomography which will be applied to the scanning of loading and unloading containers in ports and airports

MEMBER OF R+D PROJECTS FINANCED BY PUBLIC INSTITUTIONS

Title: Nuclear Theory
Financial institutions: U.S. Department of Energy, Office of Nuclear Physics, USA
Favored institutions: Argonne National Laboratory, USA
Reference, range: DE-AC02-06CH11357, National
Length, since: 10/01/2012 until: 09/30/2014
Principal investigator: Craig D. Roberts

Title: Hadronic models, Fundamental Interactions and Nuclear Physics
Financial institutions: Ministry of Science and Innovation, Spain
Favored institutions: University of Salamanca, Spain
Reference, range: FPA2010-21750-C02-02, National
Length, since: 01/01/2011 until: 12/31/2013
Principal investigator: Alfredo Valcarce Mejía

Title: Study of Strongly Interacting Matter
Financial institutions: European Union, VII Marco Program
Favored institutions: University of Salamanca (Spain) among other European Institutions
Reference, range: European Red HadronPhysics 2 WP4 (227431), International
Length, since: 06/30/2009 until: 06/30/2011
Principal investigator: Ulf-G. Meissner
Francisco Fernández González (coordinator at the University of Salamanca)

Title: Nuclear Physics in FAIR and Environment Radioactivity
Financial institutions: Community of Castilla y León, Spain
Favored institutions: University of Salamanca, Spain
Reference, range: GR12, Regional
Length, since: 01/01/2008 until: 12/31/2010
Principal investigator: Eliecer Hernández Gajate

Title: Spanish Consolider-Ingenio 2010 Program
National Center for Particle, Astroparticle and Nuclear Physics (CPAN)
Financial institutions: Ministry of Science and Innovation, Spain
Favored institutions: University of Salamanca (Spain) among other Spanish Institutions
Reference, range: CSD2007-00042, National
Length, since: 01/01/2007 until: 12/10/2014
Principal investigator: Antonio Pich Zardoya
Begoña Quintana Arnés (coordinator at the University of Salamanca)

Title: Hadronic models, Fundamental Interactions and Nuclear Physics
Financial institutions: Ministry of Science and Innovation, Spain
Favored institutions: University of Salamanca, Spain
Reference, range: FPA2007-65748-C02-02, National
Length, since: 10/01/2007 until: 02/04/2011
Principal investigator: Alfredo Valcarce Mejía

LIST OF PUBLICATIONS

Peer-reviewed articles:

- 1. Puzzles in hadronic transitions of heavy quarkonium with two pion emission**
Jorge Segovia, David R. Entem and F. Fernandez
Submitted to Phys. Rev. D 8pp [arXiv: 1409.7079 [hep-ph]]
- 2. Nucleon and Delta elastic and transition form factors**
Jorge Segovia, Ian C. Cloët, Craig D. Roberts and Sebastian M. Schmidt
Accepted by Few-Body Syst. 39pp [arXiv:1408.2919 [nucl-th]]
DOI: 10.1007/s00601-014-0907-2
- 3. Distribution amplitudes of light-quark mesons from lattice QCD**
Jorge Segovia, Lei Chang, Ian C. Cloët, Craig D. Roberts, Sebastian M. Schmidt and Hong-shi Zong
Phys. Lett. B731 (2014) 13-18 [arXiv: 1311.1390 [nucl-th]]
DOI: 10.1016/j.physletb.2014.02.006
- 4. Elastic and transition form factors of the $\Delta(1232)$**
Jorge Segovia, Chen Chen, Ian C. Cloët, Craig D. Roberts, Sebastian M. Schmidt and Shaolong Wan
Few-Body Syst. 54 (2013) 1-33 [arXiv:1308.5225 [nucl-th]]
DOI 10.1007/s00601-013-0734-x
- 5. Constituent quark model description of charmonium phenomenology**
J. Segovia, D.R. Entem and F. Fernández
Int. J. Mod. Phys. E22 (2013) 1330026 39pp [arXiv:1309.6926 [hep-ph]]
DOI: 10.1142/S0218301313300269
- 6. Insights into the $\gamma^*N \rightarrow \Delta$ transition**
Jorge Segovia, Chen Chen, Craig D. Roberts and Shaolong Wan
Phys. Rev. C88 (2013) 032201(R) 6pp [arXiv:1305.0292 [nucl-th]]
DOI: <http://dx.doi.org/10.1103/PhysRevC.88.032201>
- 7. Strong Charmonium decays in a microscopic model**
J. Segovia, D.R. Entem and F. Fernández
Nucl. Phys. A915 (2013) 125-141 [arXiv:1301.2592 [hep-ph]]
DOI: 10.1016/j.nuclphysa.2013.07.004
- 8. B decays into radially excited charmed mesons**
J. Segovia, E. Hernández, F. Fernández and D.R. Entem
Phys. Rev. D87 (2013) 114009 5pp [arXiv:1304.4970 [hep-ph]]
DOI: <http://dx.doi.org/10.1103/PhysRevD.87.114009>
- 9. Improved determination of Heavy Quarkonium magnetic dipole transitions in pNRQCD**
Antonio Pineda and Jorge Segovia
Phys. Rev. D87 (2013) 074024 19pp [arXiv:1302.3528 [hep-ph]]
DOI: <http://dx.doi.org/10.1103/PhysRevD.87.074024>
- 10. Renormalized Quarkonium**
J. Segovia, D.R. Entem, F. Fernández and E. Ruiz-Arriola
Phys. Rev. D86 (2012) 094027 7pp [arXiv:1210.2624 [hep-ph]]
DOI: <http://dx.doi.org/10.1103/PhysRevD.86.094027>

11. **Scaling of the 3P_0 strength in heavy meson strong decays**
 J. Segovia, D.R. Entem and F. Fernández
 Phys. Lett. B715 (2012) 322-327 [arXiv:1205.2215 [hep-ph]]
 DOI: 10.1016/j.physletb.2012.08.005
12. **Nonleptonic $B \rightarrow D^{(*)}D_{sJ}^{(*)}$ decays and the nature of the orbitally excited charmed-strange mesons**
 J. Segovia, C. Albertus, E. Hernández, F. Fernández and D.R. Entem
 Phys. Rev. D86 (2012) 014010 11pp [arXiv:1203.4362 [hep-ph]]
 DOI: <http://dx.doi.org/10.1103/PhysRevD.86.014010>
13. **Renormalization approach to constituent quark models of quarkonium**
 J. Segovia, D.R. Entem, F. Fernández and E. Ruiz-Arriola
 Phys. Rev. D85 (2012) 074001 20pp [arXiv:1108.0208 [hep-ph]]
 DOI: <http://dx.doi.org/10.1103/PhysRevD.85.074001>
14. **Semileptonic B and B_s decays into orbitally excited charmed mesons**
 J. Segovia, C. Albertus, D.R. Entem, F. Fernández, E. Hernández and M.A. Pérez-García
 Phys. Rev. D84 (2011) 094029 18pp [arXiv:1107.4248 [hep-ph]]
 DOI: <http://dx.doi.org/10.1103/PhysRevD.84.094029>
15. **Charmonium resonances in e^+e^- exclusive reactions around the $\psi(4415)$ region**
 J. Segovia, D.R. Entem and F. Fernández
 Phys. Rev. D83 (2011) 114018 8pp
 DOI: <http://dx.doi.org/10.1103/PhysRevD.83.114018>
16. **Very broad X(4260) and the resonance parameters of the $\psi(3D)$ vector charmonium state**
 Eef Van Beveren, George Rupp and J. Segovia
 Phys. Rev. Lett. 105 (2010) 102001 4pp [arXiv:1005.1010 [hep-ph]]
 DOI: <http://dx.doi.org/10.1103/PhysRevLett.105.102001>
17. **Charmonium narrow resonances in the string breaking region**
 J. Segovia, D.R. Entem and F. Fernández
 J. Phys. G: Nucl. Part. Phys. 37 (2010) 075010 11pp
 DOI: 10.1088/0954-3899/37/7/075010
18. **Coupled channel approach to the structure of the X(3872)**
 P.G. Ortega, J. Segovia, D.R. Entem and F. Fernández
 Phys. Rev. D81 (2010) 054023 9pp [arXiv:0907.3997 [hep-ph]]
 DOI: <http://dx.doi.org/10.1103/PhysRevD.81.054023>
19. **$D_{s1}(2536)^+$ decays and the properties of P-wave charmed strange mesons**
 J. Segovia, A.M. Yasser, D.R. Entem and F. Fernández
 Phys. Rev. D80 (2009) 054017 5pp
 DOI: <http://dx.doi.org/10.1103/PhysRevD.80.054017>
20. **$J^{PC} = 1^{--}$ hidden charm resonances**
 J. Segovia, A.M. Yasser, D.R. Entem and F. Fernández
 Phys. Rev. D78 (2008) 114033 11pp
 DOI: <http://dx.doi.org/10.1103/PhysRevD.78.114033>
21. **Is chiral symmetry restored in the excited meson spectrum?**
 J. Segovia, D.R. Entem and F. Fernández
 Phys. Lett. B662 (2008) 33-36
 DOI: 10.1016/j.physletb.2008.02.051

Peer-reviewed conference proceedings:

22. **The role of radially excited charmed mesons in semileptonic B decays.** Jorge Segovia, E. Hernández, F. Fernández and D.R. Entem. In the Proceedings of the XV International Conference on Hadron Spectroscopy (HADRON2013). Nara (Japan), 2014. Edited by Toru Iijima, Kenkichi Miyabayashi and Atsushi Hosaka. PoS (HADRON2013) 079 (2014).
23. **Running of the 3P_0 strength in heavy meson strong decays.** F. Fernández, D.R. Entem and J. Segovia. In the Proceedings of the 10th Quark Confinement and the Hadron Spectrum (CONFINEMENT X). Munich (Germany), 2012. Edited by Matthias Berwein, Nora Brambilla, Stephan Paul. PoS (Confinement X) 296 (2013).
24. **The nature of the orbitally excited charmed-strange mesons through nonleptonic $B \rightarrow D^{(*)}D_{sJ}^{(*)}$ decays.** J. Segovia, C. Albertus, E. Hernández, F. Fernández and D.R. Entem. In the Proceedings of the 12th International Workshop on Meson Production, Properties and Interaction (MESON2012). Krakow (Poland), 2012. Edited by A. Wrońska, R. Skibiński, C. Guaraldo, St. Kistryn and H. Ströher. EPJ Web of Conferences 37, 05003 (2012).
25. **Semileptonic B decays into orbitally excited charmed mesons.** J. Segovia, C. Albertus, D.R. Entem, F. Fernández, E. Hernández and M.A. Pérez-García. In the Proceedings of the 19th Particles and Nuclei International Conference (PANIC2011). Cambridge (USA), 2011. Edited by Stephen G. Steadman, George S.F. Stephans and Frank E. Taylor. AIP Conference Proceedings 1441, 687-689 (2012).
26. **Microscopic model of charmonium strong decays.** J. Segovia, D.R. Entem and F. Fernández. In the Proceedings of the XIV International Conference on Hadron Spectroscopy. Munich (Germany), 2011. Edited by B. Grube, S. Paul, and N. Brambilla. eConf C110613:361 (2011).
27. **Weak B decays into orbitally excited charmed mesons.** J. Segovia, C. Albertus, D.R. Entem, F. Fernández, E. Hernández and M.A. Pérez-García. In the Proceedings of the XIV International Conference on Hadron Spectroscopy. Munich (Germany), 2011. Edited by B. Grube, S. Paul, and N. Brambilla. eConf C110613:622 (2011).
28. **Charmonium resonances in e^+e^- annihilation cross sections around the $\psi(4415)$ region.** J. Segovia, D.R. Entem and F. Fernández. In the Proceedings of the 11th International Workshop on Meson Production, Properties and Interaction (MESON2010). Krakow (Poland), 2010. Edited by Aleksandra Wrońska, Stanisław Kistryn, Hartmut Machner and Carlo Guaraldo. Int. Journal of Modern Physics A **26** (3-4) 573-575 (2011).
29. **Charmonium properties in a renormalization scheme.** J. Segovia, D.R. Entem, F. Fernández and E. Ruiz-Arriola. In the Proceedings of the 12th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU2010), Williamsburg (USA), 2010. Edited by David Armstrong, Volker Burkert, Jian-Ping Chen, Will Detmold, Jo Dudek, Wally Melnitchouk and David Richards. AIP Conference Proceedings 1374, 565-568 (2011).
30. **The $D_{s1}(2536)^+$ structure and its D^*K decays.** J. Segovia, D.R. Entem and F. Fernández. In Proceedings of the XIII International Conference on Hadron Spectroscopy (HADRON09), Tallahassee (USA), 2009. Edited by Volker Crede, Paul Eugenio and A. Ostrovidov. AIP Conference Proceedings 1257, 390-394 (2010).
31. **Charmonium states in the string breaking region.** J. Segovia, D.R. Entem and F. Fernández. In the Proceedings of the XIII International Conference on Hadron Spectroscopy (HADRON09), Tallahassee (USA), 2009. Edited by Volker Crede, Paul Eugenio and A. Ostrovidov. AIP Conference Proceedings 1257, 350-354 (2010).
32. **The $X(3872)$ and other possible XYZ molecular states.** P.G. Ortega, J. Segovia, D.R. Entem and F. Fernández. In the Proceedings of the XIII International Conference on Hadron Spectroscopy (HADRON09), Tallahassee (USA), 2009. Edited by Volker Crede, Paul Eugenio and A. Ostrovidov. AIP Conference Proceedings 1257, 331-335 (2010).

33. **$D_{s_1}(2536)^+$ decays and properties of P-wave charmed strange mesons.** J. Segovia, D.R. Entem and F. Fernández. In the Proceedings of the 5th International Conference on Quarks and Nuclear Physics (QNP09), Beijing (China), 2009. Edited by Peng-Nian Shen, Qiang Zhao and Bing-Song Zou. Chinese Physics C **34**(9) 1408-1410 (2010).
34. **Coupled channel description for X(3872) and other XYZ mesons.** P.G. Ortega, J. Segovia, D.R. Entem and F. Fernández. In the Proceedings of the Europhysics Conference on High Energy Physics (EPS-HEP09), Krakow (Poland), 2009. Edited by Antoni Szczurek. PoS EPS-HEP2009:087 (2009).
35. **$J/\psi \rightarrow 3\gamma$ as an ideal system to study high order QCD corrections.** J. Segovia, D.R. Entem and F. Fernández. In the Book of Abstracts of DPG Spring Meeting in conjunction with the I European Nuclear Physics Conference (EuNPC09), Bochum (Germany), 2009. Edited by Reiner Krücken, Olaf Scholten and Ulrich Wiedner. Verhandlungen der Deutschen Physikalischen Gesellschaft, ISSN 0420-0195 (2009).
36. **Charm spectroscopy beyond the constituent quark model.** J. Segovia, D.R. Entem and F. Fernández. In the Proceedings of 34th International Conference on High Energy Physics (ICHEP08), Philadelphia (USA), 2008. Edited by A.J. Stewart Smith, Nigel Lockyer and Joseph Kroll. eConf C080730 (2008), arXiv:hep-ph/0810.2875v1.
37. **Restauración de la simetría quiral en estados mesónicos altamente excitados.** J. Segovia, D.R. Entem and F. Fernández. In the Proceedings of the XXXI Bienal de la Real Sociedad Española de Física, Granada (Spain), 2007. Edited by the Real Sociedad Española de Física. CD with scientific contributions (2007).
38. **Chiral symmetry restoration in excited mesons.** J. Segovia, D.R. Entem and F. Fernández. In the Proceedings of the 11th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU07), Juelich (Germany), 2007. Edited by H. Machner and S. Krewald. eConf C070910:285 (2007).

CONTRIBUTION TO CONFERENCES

(underlined the coauthor who presented the contribution)

1. Magnetic transitions in heavy quarkonium

Antonio Pineda and Jorge Segovia

Parallel talk at the XI Quark Confinement and the Hadron Spectrum (Confinement2014)

St. Petersburg. September 7-12, 2014

2. Puzzles in Quarkonium hadronic transitions with two pion emission

Francisco Fernandez, Jorge Segovia, Pablo G. Ortega and David R. Entem

Parallel talk at the XI Quark Confinement and the Hadron Spectrum (Confinement2014)

St. Petersburg. September 7-12, 2014

3. Electro-couplings of nucleon resonances at CLAS12

Jorge Segovia, Ian C. Cloët, Craig D. Roberts and Sebastian M. Schmidt

Parallel talk at the 27th Annual Midwest Theory Get-Together

Argonne, Illinois (USA). September 5-6, 2014

4. The role of radially excited charmed mesons in semileptonic B decays

Jorge Segovia, E. Hernández, F. Fernandez and D.R. Entem

Parallel talk at the XV International Conference on Hadron Spectroscopy (HADRON2013)

Nara, Japan. November 4-8, 2013

5. **Study of electromagnetic form factors with Dyson-Schwinger equations**
Jorge Segovia, Ian C. Cloët, Craig D. Roberts, Chen Chen and Shaolong Wan
 Parallel talk at the 26th Annual Midwest Theory Get-Together
 Argonne, Illinois (USA). September 6-7, 2013
6. **EFT calculations of M1 and E1 transitions**
Antonio Pineda and Jorge Segovia
 Plenary talk at the 6th International Workshop on Charm Physics (Charm2013)
 Manchester, England. August 31 - September 4, 2013
7. **The electromagnetic $\gamma^* N \rightarrow \Delta$ transition in Dyson-Schwinger equations**
Jorge Segovia, Chen Chen, Craig D. Roberts and Shaolong Wan
 Parallel talk at the 28th Annual Hampton University Graduate Studies Program (HUGS2013)
 Newport News, Virginia (USA). May 28 - June 14 2013
8. **Emergent phenomena in Quantum Chromodynamics**
Jorge Segovia
 Poster at the PSE Board of Governors' review of Argonne National Laboratory
 Lemont, Illinois (USA). May 16 2013
9. **Heavy Quarkonium magnetic dipole transitions in pNRQCD**
Antonio Pineda and Jorge Segovia
 Parallel talk at the 9th International Workshop on Heavy Quarkonium (Quarkonium2013)
 Beijing, China. April 22-26, 2013
10. **Insights on the $N \rightarrow \Delta$ transition**
Jorge Segovia, Chen Chen, Craig D. Roberts and Shaolong Wan
 Parallel talk at the 5th Workshop of the APS Topical Group on Hadronic Physics (GHP2013)
 Denver, Colorado (USA). April 10-12, 2013
11. **Running of the 3P_0 strength in heavy meson strong decays**
J. Segovia, D.R. Entem and F. Fernández
 Poster at the X Quark Confinement and the Hadron Spectrum (Confinement2012)
 Munich, Germany. October 7-12, 2012
12. **The nature of the orbitally excited charmed-strange mesons through nonleptonic $B \rightarrow D^{(*)} D_{sJ}^{(*)}$ decays**
J. Segovia, C. Albertus, E. Hernández, F. Fernández and D.R. Entem
 Parallel talk at the 12th International Workshop on Meson Production, Properties and Interaction (MESON2012)
 Krakow, Poland. May 31 - June 5, 2012
13. **Semileptonic B decays into orbitally excited charmed mesons**
J. Segovia, C. Albertus, D.R. Entem, F. Fernández, E. Hernández and M.A. Pérez-García
 Parallel talk at the 19th Particles and Nuclei International Conference (PANIC2011)
 Cambridge, USA. July 25-29, 2011
14. **Semileptonic B and B_s decays into orbitally excited charmed mesons**
J. Segovia, C. Albertus, D.R. Entem, F. Fernández, E. Hernández and M.A. Pérez-García
 Poster Contribution at the XXI International Europhysics Conference on High Energy Physics (EPS-HEP2011)
 Grenoble, France. July 21-27, 2011

15. **Microscopic model of charmonium strong decays**
J. Segovia, D.R. Entem and F. Fernández
 Parallel talk at the XIV International Conference on Hadron Spectroscopy (HADRON2011)
 Munich, Germany. June 13-17, 2011
16. **Weak B decays into orbitally excited charmed mesons**
J. Segovia, C. Albertus, D.R. Entem, F. Fernández, E. Hernández and M.A. Pérez-García
 Parallel talk at the XIV International Conference on Hadron Spectroscopy (HADRON2011)
 Munich, Germany. June 13-17, 2011
17. **Charmonium resonances in e^+e^- annihilation cross sections around the $\psi(4415)$ region**
J. Segovia, D.R. Entem and F. Fernández
 Parallel talk at the 11th International Workshop on Meson Production, Properties and Interaction (MESON2010)
 Krakow, Poland. June 10-15, 2010
18. **Charmonium properties in a renormalization scheme**
J. Segovia, D.R. Entem, F. Fernández and E. Ruiz-Arriola
 Parallel talk at the 12th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU2010)
 Williamsburg, USA. May 31 - June 4, 2010
19. **The $D_{s_1}(2536)^+$ structure and its D^*K decays**
D.R. Entem, F. Fernández and J. Segovia
 Parallel talk at the XIII International Conference on Hadron Spectroscopy (HADRON09)
 Tallahassee, USA. November 29 - December 4, 2009
20. **Charmonium states in the string breaking region**
F. Fernández, J. Segovia and D.R. Entem
 Parallel talk at the XIII International Conference on Hadron Spectroscopy (HADRON09)
 Tallahassee, USA. November 29 - December 4, 2009
21. **The $X(3872)$ and other possible XYZ molecular states**
D.R. Entem, P.G. Ortega, J. Segovia and F. Fernández
 Parallel talk at the XIII International Conference on Hadron Spectroscopy (HADRON09)
 Tallahassee, USA. November 29 - December 4, 2009
22. **$D_{s_1}(2536)^+$ decays and properties of P-wave charmed strange mesons**
J. Segovia, D.R. Entem and F. Fernández
 Parallel talk at the 5th International Conference on Quarks and Nuclear Physics (QNP09)
 Beijing, China. September 21-26, 2009
23. **Coupled channel description for $X(3872)$ and other XYZ mesons**
P.G. Ortega, J. Segovia, D.R. Entem and F. Fernández
 Parallel talk at the Europhysics Conference on High Energy Physics (EPS-HEP09)
 Krakow, Poland. July 16-22, 2009
24. **$J/\psi \rightarrow 3\gamma$ as an ideal system to study high order QCD corrections**
J. Segovia, D.R. Entem and F. Fernández
 Parallel talk at the DPG Spring Meeting in conjunction with the I European Nuclear Physics Conference (EuNPC09)
 Bochum, Germany. March 16-20, 2009

25. **XYZ: Los nuevos estados de mesones con encanto oculto**
J. Segovia, D.R. Entem and F. Fernández
 Poster contribution at the III Encuentro de Física Nuclear (EFN08)
 Santiago de Compostela, Spain. September 17-19, 2008
26. **Charm spectroscopy beyond the constituent quark model**
 J. Segovia, D.R. Entem and F. Fernández
 Parallel talk at the 34th International Conference on High Energy Physics (ICHEP08)
 Philadelphia, USA. July 29 - August 5, 2008
27. **Restauración de la simetría quiral en estados mesónicos altamente excitados**
J. Segovia, D.R. Entem and F. Fernández
 Parallel talk at the XXXI Bienal de la Real Sociedad Española de Física
 Granada, Spain. September 10-14, 2007
28. **Chiral symmetry restoration in excited mesons**
 J. Segovia, D.R. Entem and F. Fernández
 Parallel talk at the 11th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU07)
 Juelich, Germany. September 10-14, 2007

INVITATIONS TO SCIENTIFIC CONFERENCES AND SEMINARS

- Invited presentations:
 1. **Heavy quark phenomenology: a quark model perspective.** II Workshop on Perspectives in Nonperturbative QCD. IFT-UNESP, Sao Paulo (Brazil). May 13-14, 2014.
 2. **N , Δ and $N \rightarrow \Delta$ electromagnetic form factors in DSEs.** Many Manifestations of Nonperturbative QCD – International Workshop on Nonperturbative Phenomena in Hadron and Particle Physics – Ubatuba, Sao Paulo (Brazil). May 5-10, 2014.
 3. **Exploring $N \rightarrow \Delta$ transition using Dyson-Schwinger equations.** First Sino-Americas Workshop and School on the Bound State Problem in Continuum QCD. Hefei, Anhui (China). October 22-26, 2013.
- Invited seminars:
 1. **Recent advances in the calculation of hadron form factors using Dyson-Schwinger equations.** Theory Center at Thomas Jefferson National Accelerator Facility. Newport News, Virginia (USA). December 4, 2013.
 2. **Explanations and predictions from QCD's DSEs.** Argonne National Laboratory. Chicago, Illinois (USA). November 14, 2013.
 3. **Insights into the electromagnetic $\gamma^*N \rightarrow \Delta$ transition.** Kent State University. Kent, Ohio (USA). May 1, 2013.
 4. **Heavy meson phenomenology in a constituent quark model.** University of Barcelona. Barcelona, Spain. April 25, 2012.
 5. **Constituent quark model description of heavy meson phenomenology.** Argonne National Laboratory. Chicago, Illinois (USA). January 24, 2012.

REFERENCES

Name: David R. Entem
Professional relationship: PhD supervisor
Institution: University of Salamanca, Spain
Position: Assistant professor
E-mail: entem@usal.es

Name: Francisco Fernández
Professional relationship: PhD mentor
Institution: University of Salamanca, Spain
Position: Full professor
E-mail: fdz@usal.es

Name: Eef van Beveren
Professional relationship: Research stay supervisor
Institution: University of Coimbra, Portugal
Position: Assistant professor
E-mail: eef@teor.fis.uc.pt

Name: Antonio Pineda
Professional relationship: Research stay supervisor
Institution: Universitat Autònoma de Barcelona, Spain
Position: Associate professor
E-mail: pineda@ifae.es

Name: Craig D. Roberts
Professional relationship: Postdoctoral supervisor
Institution: Argonne National Laboratory, USA
Position: Senior physicist and group leader
E-mail: cdroberts@anl.gov

Name: Ian C. Cloët
Professional relationship: Postdoctoral mentor
Institution: Argonne National Laboratory, USA
Position: Assistant physicist
E-mail: icloet@anl.gov