Ricardo D'Elia Matheus Curriculum Vitae

EDUCATION

2003 - 2006	Ph.D. in Physics, December 2006 Universidade de São Paulo, USP, São Paulo, Brazil Thesis: Exotic Particles in QCD Sum Rules Areas of Concentration: Elementary Particle Physics, Non-Perturbative QCD
2001 - 2003	M.S. in Physics, April 2003 Universidade de São Paulo, USP, São Paulo, Brazil Dissertation: The J/Psi-D-D Form Factor in QCD Sum Rules Areas of Concentration: Elementary Particle Physics, Non-Perturbative QCD
1997 - 2000	B.A. in Physics , December 2000 Universidade de São Paulo, USP, Sao Paulo, Brazil

GRANTS

2012 - 2014	Research Project ("Projeto Regular") Granted by FAPESP (São Paulo State Research Support Foundation) Project Title: Strongly Coupled Theories and LHC phenomenology
2007 - 2010	Post-Doctoral Fellowship Granted by FAPESP (São Paulo State Research Support Foundation) Project Title: New Physics at the TeV scale: Strong Coupled Field Theories and AdS Extra Dimensions
2003 - 2006	Doctoral Fellowship, Granted by FAPESP (São Paulo State Research Support Foundation) Project Title: Charmed Form Factors in QCD Sum Rules
2001 - 2003	Master Studies Fellowship, Granted by FAPESP (São Paulo State Research Support Foundation) Project Title: The J/Psi-D-D Form Factor in QCD Sum Rules

PIBIC Fellowship,

1997 - 2000

Granted by CNPq: (National Council of Scientific and Technological Development)

Project: Development of the Chopper Cavity of the Microtron Particle
Accelerator

POSITIONS HELD

Since 2011	Assistant Professor Instituto de Física Teórica, UNESP, São Paulo, Brazil Currently held (since December/2011)
2010 - 2011	Assistant Professor Universidade Federal de São Paulo, UNIFESP, Diadema, Brazil October/2010 to December/2011

RECENT RESEARCH ACTIVITIES

Currently working on two lines of research:

- 1. Standard Model extensions on the TeV scale, focusing on theories with Extra-Dimensions with AdS geometry. Using Monte Carlo event generators to study the LHC phenomenology of such models.
- **2.** Use of non-perturbative QCD methods to the study of hadronic properties. Special interest in the hadronic spectrum and exotic hadrons.

SELECTED PUBLICATIONS (LAST 10 YEARS)

- 1. Burdman, G., de Lima, L., Matheus, R.D.

 1. Is the LHC Observing the Pseudo-scalar State of a Two-Higgs Doublet Model?

 Physical Review D, v. 85, 95016, 2012.

 Cited 22 times.
- 2. Zanetti, C.M., Nielsen, M., Matheus, R. D.
 2011 QCD Sum Rules for the production of the X(3872) as a mixed molecule-charmonium state in B
 Physics Letters B, v. 702, 359, 2011.
 Cited 1 time.
 - **3.** Burdman, G., de Lima, L., **Matheus, R.D.**New Strongly Coupled Sector at the Tevatron and the LHC Physical Review D, v. 83, 35012, 2011.
 Cited 30 times.

4. Burdman, G., da Rold, L., Matheus, R.D. Lepton Sector of a Fourth Generation Physical Review D, v. 82, 55015, 2010. Cited 22 times.

5. Burdman, G., da Rold, L., Eboli, O., Matheus, R.D. A Strongly Coupled Fourth Generation at the LHC Physical Review D, v. 79, 075026, 2009. Cited 26 times.

6. Matheus, R. D., Navarra, F.S., Nielsen, M., Zanetti, C.M. QCD Sum Rules for the X(3872) as a mixed molecule-charmoniun state Physical Review D, v. 80, 056002, 2009. Cited 26 times.

7. Matheus, R. D., Navarra, F.S., Nielsen, M., Rodrigues da Silva, R. Do the QCD sum rules support four-quark states? Physical Review D, v. 76, 056005, 2007. Cited 28 times.

8. Matheus, R.D., Narison, S., Nielsen, M., Richard, J.M. Can the X(3872) be a 1++ four-quark state? Physical Review D, v. 75, 014005, 2007. Cited 65 times.

9. Matheus, R. D., Narison, S.
2006 Are the pentaquark sum rules reliable?
Nuclear Physics. B, Proceedings Supplement., v.152, p.236 - 241, 2006.
Cited 40 times.

10. Bracco, M. E., Soares, A. L. F., **Matheus, R. D.**, Navarra, F.S., Nielsen, M. Disentangling two- and four-quark state pictures of the charmed scalar mesons. Physics Letters. Section B, v.624, p.217 - 222, 2005. Cited 47 times.

11. Matheus, R. D., Navarra, F.S., Nielsen, M., R. da Silva, R., Lee, S. H. Are Theta+ and the Roper resonance diquark-diquark-antiquark states?. Physics Letters. Section B, v.578, p.323 - 329, 2004. Cited 95 times.

12. Matheus, R. D., Navarra, F.S., Nielsen, M., Rodrigues da Silva, R. The J/psi D D vertex in QCD sum rules. Physics Letters. Section B., v.541, p.265 - 272, 2002. Cited 59 times.

CITATION METRICS

Metric	All papers	Published only
Total number of citable papers analyzed:	31	19
Total number of citations:	538	465
Average citations per paper:	17.4	24.5
h-index:	14	12

inSPIRE data from September 17th, 2012