

# Ricardo D'Elia Matheus

## Assistant Professor

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### 1. EDUCATION AND TRAINING

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| 2003 - 2006 | <b>Ph D in Physics</b> , December 2006<br>Universidade de São Paulo, USP, São Paulo, Brasil<br>Thesis Title: Partículas Exóticas em Regras de Soma da QCD             |
| 2001 - 2003 | <b>Master in Physics</b> , April 2003<br>Universidade de São Paulo, USP, São Paulo, Brasil<br>Dissertation Title: O Fator de Forma J/Psi-D-D em Regras de Soma da QCD |
| 1997 - 2000 | <b>Graduate in Physics</b> , December 2000<br>Universidade de São Paulo, USP, São Paulo, Brasil   |
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### 2. PROFESSIONAL HISTORY

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| Since 2011  | <b>Assistant Professor</b><br>Instituto de Física Teórica, UNESP, São Paulo, Brazil<br>Currently held (since December/2011)              |
| 2010 - 2011 | <b>Assistant Professor</b><br>Universidade Federal de São Paulo, UNIFESP, Diadema, Brazil<br>October/2010 to December/2011               |
| 2007 - 2010 | <b>Post-Doctoral Fellow</b> (FAPESP grant)<br>Departamento de Física Matemática / IF-USP, São Paulo, Brasil<br>July/2007 to October/2010 |
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### 3. MOST RELEVANT SCIENTIFIC RESULTS

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| 2016 | 1. Fonseca , N., de Lima, L., Machado , C. S., <b>Matheus, R. D.</b><br>Large field excursions from a few site relaxation model<br>Phys.Rev. D94 (2016) 15010<br>7 citations |
| 2015 | 2. de Lima, L., Machado, C.S., <b>Matheus, R.D.</b> , do Prado, L.A.F.<br>Higgs Flavor Violation as a Signal to Discriminate Models<br>JHEP 1511 (2015) 74<br>37 citations   |

- 2014 **3. Machado, C.S., Finazzo, S.I., Matheus, R.D., Noronha, J.**  
Modification of the B Meson Mass in a Magnetic Field from QCD Sum Rules  
Phys.Rev. D89 (2014) 074027  
14 citations
- 2012 **4. Burdman, G., de Lima, L., Matheus, R.D.**  
Is the LHC Observing the Pseudo-scalar State of a Two-Higgs Doublet Model?  
Physical Review D, v. 85, 95016, 2012.  
48 citations
- 2011 **5. 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.  
36 citations.
- 2010 **6. Burdman, G., da Rold, L., Matheus, R.D.**  
Lepton Sector of a Fourth Generation  
Physical Review D, v. 82, 55015, 2010.  
30 citations.
- 2009 **7. 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.  
34 citations.
- 8. Matheus, R. D., Navarra, F.S., Nielsen, M., Zanetti, C.M.**  
QCD Sum Rules for the X(3872) as a mixed molecule-charmonium state  
Physical Review D, v. 80, 056002, 2009.  
63 citations.
- 2007 **9. Matheus, R.D., Narison, S., Nielsen, M., Richard, J.M.**  
Can the X(3872) be a 1<sup>++</sup> four-quark state?  
Physical Review D, v. 75, 014005, 2007.  
137 citations.
- 2004 **10. Matheus, R. D., Navarra, F.S., Nielsen, M., R. da Silva, R., Lee, S. H.**  
Are Theta<sup>+</sup> and the Roper resonance diquark-diquark-antiquark states?.  
Physics Letters. Section B, v.578, p.323 - 329, 2004.  
103 citations.

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#### 4. CURRENT RESEARCH GRANTS

- 2013 - 2018 **FAPESP Project (Projeto Temático)**  
Role: Associate Researcher  
Coordinator: Sergio Ferraz Novaes  
Title: São Paulo Research and Analysis Center  
Funding Agency: FAPESP (processo 2012/01890-7)  
Resources: R\$ 1,043,420.04 + U\$ 1,047,384.46

## 5. CURRENT SUPERVISIONS

Since 2013	<b>PhD Student</b> Camila Sampaio Machado Project Title: The leptonic sector of Gauge theories in the Quiver: model building and phenomenology Funding Agency: FAPESP
Since 2015	<b>PhD Student</b> Leônidas Augusto Fernandes do Prado Project Title: New Physics searches in t-tbar associated Higgs production Funding Agency: CAPES
Since 2015	<b>Master Student</b> Caique Meira Ronqui Project Title: Hierarchy and naturalness, a complete view of the problem and possible solutions Funding Agency: FAPESP
Since 2016	<b>Master Student</b> Jesuel Marques Leal Junior Project Title: Correções “Next-to-Leading Order” em Regras de Soma da QCD Funding Agency: FAPESP

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## 6. ACADEMIC QUANTITATIVE INDICATORS

- 1 - Books: 0
- 2 - Publications in Refereed Journals: 22  
(considering proceedings and preprints: 36)
- 3 - Book Chapters: 0
- 4 - Supervised Master’s Dissertations: 1
- 5 - Supervised Ph.D. Thesis: 0

### Citation summary

<b>Metric</b>	<b>Citeable papers</b> (proceedings included)	<b>Published only</b>
Total number of papers analyzed:	36	22
Total number of citations:	838	757
Average citations per paper:	23.3	34.4
<b><i>h-index:</i></b>	<b>16</b>	<b>15</b>

inSPIRE data - July, 2016 (author:R.D.Matheus.1)

## 7. GOOGLE SCHOLAR LINK

<http://scholar.google.com.br/citations?user=bUv65YoAAAAJ>

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## 8. OTHER BIOGRAPHICAL INFORMATION

Since 2015

**Member of the “Conselho Curador” (Superior Council) of “Fundação Instituto de Física Teórica”;**  
with a 4 year mandate.