

Franciole da Cunha Marinho
Universidade Federal de São Carlos
Departamento de Ciências da Natureza, Matemática e Educação
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EDUCATION

University of Glasgow, Scotland

PhD. in Physics (2005 – 2008)

Thesis: Quality Assurance of the VELO Modules and Analysis of the $B_d \rightarrow K^* \mu^+ \mu^-$ Rare Decay on LHCb

Supervisor: Prof. Chris Parkes

Universidade Federal do Rio de Janeiro, Instituto de Física, Rio de Janeiro, Brazil

M.S. in Physics (2003 - 2005)

Thesis: Estudo da Sensibilidade de Observação do Decaimento Raro $B_s \rightarrow \mu^+ \mu^-$ no Detetor Otimizado LHCb

Advisor: Prof. Sandra Amato

Universidade Federal do Rio de Janeiro, Instituto de Física, Rio de Janeiro, Brazil

B.S. in Physics (1999 - 2003)

ACADEMIC POSITIONS

2016 – present

Universidade Federal de São Carlos, Araras, Brazil

Assistant Professor of Physics

2011 – 2016

Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

Assistant Professor of Physics

2009 – 2011

Universidade do Estado de São Paulo, São Paulo, Brazil

Postdoctoral Fellow

RESEARCH AREAS

1. High energy physics, 2. Detector instrumentation

FUNDING AWARDS

2014 – 2016	Research Grant	R&D with pixel detectors for HEP, FAPERJ.
2013 – 2016	Research Grant	Equipment acquisition for a instrumentation laboratory, CNPq.
2012 – 2014	Research Grant	New applications for radiation-matter interactions simulations, FAPERJ.
2009 – 2011	Postdoctorate Fellowship	Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP), Brazil .
2005 – 2008	PhD Schollarship	Scottish Universities Physics Alliance (SUPA), Scotland .
2003 – 2005	M.S. Schollarship	Coordenadoria de Aperfeiçoamento de Pessoal de Nível Superior (CAPES), Brazil
2000 – 2003	Undergrad Schollarships	Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), Brazil.

LANGUAGES

Portuguese: Native speaker
English: Reading: fluent Writing: fluent Speaking: fluent

SELECTED PUBLICATIONS

- Marinho, F.; Paulucci, L.. *Kinematic measurements using an infrared sensor*. European Journal of Physics, v. 37, p. 025003, 2016.
- Marinho, F.; Akiba, K.. *A GEANT4 based simulation for pixelated X-ray hybrid detectors*. Nuclear Instruments and Methods in Physics A, v. 772, p. 50, 2015.
- Marinho, F.; Paulucci, L.; Galante, D.. *Propagation and Energy Deposition of Cosmic Rays' Muons on Terrestrial Environments*. International Journal of Astrobiology, v. 13, p. 319, 2014.
- Aaij, R. *et al.* *Performance of the LHCb Vertex Locator*. International Journal of Instrumentation, v. 9, P09007, 2014.
- Antolin, M. Q.; Marinho, F.; Palma, D. A. P.; Martinez, A.S.. *Spallation source modelling for an ADS using the MCNPX and GEANT4 packages for sensitivity analysis of reactivity*. Nuclear Data Sheets, v. 118. p. 510. 2014.
- Blake, T.; Dickens, J.; Egede, U.; Jansen, F.; Marinho, F.; Patel, M.; Perez-Calero Yzquierdo A.; Reece W.; Serra N.; Skottowe H. and Ybeles Smit G.. *Roadmap for selected key measurements of LHCb, Chapter 6 - Analysis of the decay $B_0 \rightarrow K^*\mu+\mu^-$* . CERN-LHCb-PUB-2009-029, 2010.
- Marinho, F.; Parkes, C.; Viret, S.. *Acceptance effects and background studies in the $B_d \rightarrow K^*\mu+\mu^-$ decay at LHCb*. CERN-LHCb-2009-005, 2009.
- Marinho, F.; Parkes, C.; Viret S.. *A non-parametric method to estimate the Forward-Backward Asymmetry from the $B_d \rightarrow K^*\mu+\mu^-$* . CERN-LHCb-2009-004, 2009.
- Bates, A.; Marinho, F.; Parkes, C.; Saavedra, A. *et al.* *LHCb VERtex LOcator module characterisation and long term quality assurance tests*. Nuclear Instruments and Methods in Physics A, v. 611, p. 41, 2009.
- Doria, M. M.; Marinho, F.. *Ondas e Bits*. 1. ed. São Paulo: Livraria da USP, v. 1. 126p, 2006.

PROFESSIONAL SERVICE

- Vice-coordinator: Professional master program in physics education, UFRJ/Macaé, 2014 – 2016.
- Comitee member: Engineering program, UFRJ/Macaé, 2014 – 2015.
- Reviewer: UFRJ grants for students in scientific activities (PIBIC, CAPES grants), 2013 – 2015.
- Coordinator: Undergrad physics laboratories. UFRJ/Macaé, 2012 – 2014.
- Academic advisor, UFRJ/Macaé, 2012 – 2016.
- Comitee member: Research, development and innovation, UFRJ/Macaé, 2012 – 2013.

STUDENTS ADVISED

Name	University & Department	Degree & Year
Tiago dos Anjos Costa	UFABC, Physics	M.S., co-supervisor, 2011
Cesar Augusto Bernardes	UFABC, Physics	M.S., co-supervisor, 2011
Mateus Mendes Miguel	UFRJ, Engineering	B.S. – scholarship project, 2015
Lucas Pousa Soares Lopes	UFRJ, Engineering	B.S. – scholarship project, 2015

Matheus Castro Bachega	UFRJ, Engineering	B.S. – scholarship project, 2014
Mateus Barros Almeida	UFRJ, Engineering	B.S. – scholarship project, 2013-2014
Bruno Medeiros de Castro Tavares	UFRJ, Engineering	B.S. – scholarship project, 2013
Antonio Augusto L.V. P. Fonseca	UFRJ, Engineering	B.S. – scholarship project, 2013
Naiara Rinco de Marques e Carmo	UFRJ, Engineering	B.S. – scholarship project, 2013
Paulo José Serrano da Costa	UFRJ, Engineering	B.S. – scholarship project, 2012

THESIS EXAMINER

<i>Student</i>	<i>University & Department</i>	<i>Degree & Year</i>
Lucas Santos	UFSCAR, Physics Teaching	B.S., senior thesis, 2016
Arivaldo Lopes	UFABC, Physics Teaching	M.S., 2016
Rubem Raphael dos Santos Caetano	CBPF, Physics	M.S., 2015
Nikhul Dev Patel	The University of Sidney, Physics	Ph.D., 2014
Renata Vieira da Silva Pessanha	IFRJ, Engineering	B.S., senior thesis, 2014