

Hélio da Motta
Short Curriculum Vitae

1) Education

a) D.C. (physics)	Brazilian Center for Research in Physics (CBPF)	1993.
b) Bac. (physics)	Rio de Janeiro Federal University (UFRJ)	1985
c) M.C.(electrical engineering)	Military Institute of Engineering (IME)	1982
d) E.E (electronic and telecomm)	Rio de Janeiro State University (UERJ)	1978

2) Professional appointments

a) Brazilian Center for Research in Physics (CBPF)	researcher	1989 – present
b) Rio de Janeiro State University (UERJ)	professor	1983 – present
c) Estácio de Sá University (UNESA)	professor	1981 – 1986
d) Military Institute of Engineering (IME)	assistant professor	1980 – 1981
e) School for the Training and Improvement of Officers of the Fire Department of the State of Rio de Janeiro	professor	1980
f) Liceu de Artes e Ofícios (LAO)	teacher	1979 – 1981
g) Globo TV Network (RGT)	trainee	1978

3) Grants and fellowships

a) Science without borders	(CNPq)*	(2012 - 2015)
b) Universal program	(CNPq)	(2007-2009)
c) Research grants	(CNPq)	(2000 – present)
d) NPC fellowship	Fermilab	(2016)

4) Adviser: Postdoctoral

a) Dr. Gilson Correia	(2020)	MINERvA
b) Dr. Anushree Ghosh	(2015)	MINERvA
c) Dr. Harold Yepes	(2014 – 2015)	MINERvA
d) Dr. Thiago Muhlbeier	(2012 – 2013)	MINERvA
e) Dr. César Castromonte	(2008 – 2010)	MINERvA
f) Dr. Stefan Wagner	(2015)	CONNIE

5) Adviser: Doctor and master graduate students

a) Daniel Correia	Doctor	2022-present	DUNE
b) Adrian Lozano Sánchez	Doctor	2018-2022	MINERvA
c) Gian Freddy	Master and doctor	2015-2020	MINERvA
d) Mateus Carneiro	Doctor	2012-2016	MINERvA
e) Vitor Cunha,	Master	2015-2016	MINERvA
f) Kenyi Paolo Anampa	Doctor	2010-2014	MINERvA
g) David Alejandro Caicedo	Master and doctor	2008-2014	MINERvA
h) Guillermo Arturo Aguirre	Master and doctor	2007-2013	MINERvA
i) José Luis Palomino,	Master and doctor	2006-2012	MINERvA
j) César Sotelo	Master	2010-2012	MINERvA
k) Alexandre Martins	Master	2001-2003	E769
l) Fábio Antônio de Rezende	Master (coadviser)	2003-2005	E769
m) Rogério Menezes,	Master (coadviser)	2003-2005	E769
n) Marcello Santo Nicola	Doctor	1998-2002	E769

6) Professional Associations and Activities

- a) Member of committee NuFact14, NuFact20 and NuFact22
- b) Chair (with Jorge Morfin, Fermilab) : NuFact15 (2015)
- c) Chair (with Jorge Morfin, Fermilab) : NUINT12 (201)
- d) Member of committee: NUINT11, NUINT14 and NUINT15
- e) Member of committee: INSS 2015
- f) Member of the American Physical Society (APS)
- g) Member of the Brazilian Physical Society (SBF)
- h) Reviewer for CNPq grants and fellowships

7) Experiment Committees

- a) DUNE: Review of the CSSC committee (present); RRB, Resources Review Board (2022,2023); E&O committee (2020 – present); CSSC (2021 & 2022)
- b) MINERvA: Speakers committee (present); executive committee (2012-2013)

8) Experiments

- a) E769 Fixed Target experiment Fermilab
- b) D0 Collider Fermilab
- c) MINERvA Neutrino experiment Fermilab
- d) DUNE SWNeutrino experiment

9) Seminars, courses and colloquia

- a) Invited seminars, courses and colloquia (Brazil, Peru and the USA).
- b) Undergraduate course (electromagnetism, microwave, electronics, mathematical methods, system analysis, computing, programming), UERJ
- c) Graduate courses (particle physics, physics of particle detectors, mechanics), CBPF

10) Academic committees and boards

- a) Member of 25 doctor thesis committees (Brazil)
- b) Member of 20 master dissertation committees (Brazil)
- c) Evaluation of two candidates to full professor (Canada and the USA)

11) General

- a) One of the developers of the Forward Proton Detector (FPD), D0
- b) Responsible for adding CBPF computer cluster to the DUNE global computing network
- c) over 300 papers (E769, D0, MINERvA and DUNE)
- d) Head of the HEP department, CBPF (2001 – 2005)
- e) Advisor of 9 undergraduate students and 3 high school students

*CNPq stands for National Council for Scientific and Technological Development