

Sérgio F. Novaes

Biographical Sketch

1. Education

Year	Degree	Institution
1974-1978	Bachelor in Physics	University of São Paulo (USP)
1979-1982	Master in Physics	Institute of Theoretical Physics (IFT)
1983-1987	Ph.D. in Physics	University of São Paulo (USP)
1988-1989	Postdoctoral Research Scholar	Lawrence Berkeley Laboratory (LBNL)

2. Personal Statement

I am Professor of Physics at the São Paulo State University (Unesp). I obtained the B.Sc. and Ph.D. degrees in Physics from the University of São Paulo (USP) and I was a Postdoctoral Research Fellow at the Lawrence Berkeley National Laboratory (LBNL, Berkeley, USA). I was visiting researcher at the University of Wisconsin (Madison, USA), University of Valencia (Spain), and at the Fermi National Accelerator Laboratory (Fermilab, Chicago, USA). I started my scientific career as a theoretical physicist with 60 papers published in refereed journals on particle phenomenology and field theory. By the end of 90's, I became a member of the DZero Collaboration from Fermilab, and currently I am part the Compact Muon Solenoid (CMS) Collaboration from the European Organization for Nuclear Research (Cern, Geneva, Switzerland). I am the group leader of the CMS group in São Paulo and the Principal Investigator of Thematic Projects from São Paulo Research Foundation (Fapesp) that supports the activities of the São Paulo Research and Analysis Center (Sprace). I coordinated the deployment of GridUnesp, the first Campus Grid in Latin America and I became the Scientific Director of the Center for Scientific Computing from Unesp. I was member of the International Committee for Future Accelerators (2005–2007) and I am the Brazilian representative at the Particles and Fields Commission (C11) from the International Union of Pure and Applied Physics (since 2011) and member of the Technical and Scientific Committee of the National Network for High Energy Physics (Renafae). I led the outreach program "Elementary Structure of Matter: A Chart in Every School" which distributed a chart to 25,000 Middle Schools in Brazil and created the SPRACE Game. I coordinated several international agreements with USA (Madison, MIT, and TexasTech), Portugal (IST, Lisbon), and United Kingdom (Edinburgh and Southampton). I was member of the Advisory Committee of Fapesp (1997–2000) and CNPq (2009–2012), and the Scientific Coordinator and Deputy Director of IFT/Unesp.

3. Positions and Employment

Year	Position	Institution
1990-1995	Researcher I (MS-3)	São Paulo State University
1994	Docent (MS-4)	São Paulo State University
1995-2005	Researcher II (MS-5)	São Paulo State University
2005-2006	Researcher III (MS-6)	São Paulo State University
2006-present	Full Professor (MS-6)	São Paulo State University

4. Professional Experience

Visiting Scholar

- University of Wisconsin, Madison, USA: 10 – 11/91 and 04/93.
- University of Valencia, Valencia, Spain: 06 – 08/95.
- Fermi National Accelerator Laboratory, Batavia, USA: 7/00 – 11/02.

Positions Held

- South American representative in the Standing Committee on Interregional Connectivity (SCIC) of ICFA: 04/1999 to 01/2014.
- Member of the International Committee for Future Accelerators (ICFA): 01/05 to 12/07.
- Member of the International Union of Pure and Applied Physics (IUPAP), Commission on Particles and Fields (C11): since 11/11.
- Member of the Technical-Scientific Committee of the National High Energy Physics Network (RENAFAE): since 08/08.
- Member of the FAPESP Physics Coordination: from 01/97 to 06/00.
- Member of the Advisory Committee of Physics and Astronomy (CA-AF) CNPq: 10/09 to 09/12.
- Member of the Working Group appointed by the Minister of Science and Technology in charge of the Brazilian association with the European Organization for Nuclear Research (CERN): since 21/07/10.
- Member of the Executive Search Committee of the National Laboratory for Scientific Computing (LNCC) appointed by the Minister of Science, Technology and Innovation: on 29/06/11 and on 13/05/15.
- Institutional Representative “DØ Institutional Board”: 01/06 to 01/11.
- Member of the “CMS Collaboration Board Advisory Group”(CBAG): 02/13 to 08/14.
- Member of the Strategic Planning Committee for the Centro Brasileiro de Pesquisas Físicas (CBPF): 09/05.

- Member of the Judging Committee of the Academic Recognition Award “Zeferino Vaz” of the University of Campinas: 09/15.
- Coordinator of High Performance Computing and High Speed Network projects for the Technological Research Center of the Santos Basin (CTBS/Petrobras): since 03/12.
- Research Coordinator IFT / Unesp: 07/90 to 08/96.
- Deputy Director IFT / Unesp: 08/96 to 08/99.
- Scientific Director of Center for Scientific Computing of Unesp: since 11/08

5. Peer-Reviewed Publications

Theoretical Papers: <http://tinyurl.com/TheoryPapers>

- 60 papers with 1,250+ citations (H=21)

DZero Collaboration, Tevatron, Fermilab: <http://tinyurl.com/D0Papers>

- 260+ papers with 17,400+ citations (H=69)

CMS Collaboration, LHC, CERN: <http://tinyurl.com/CMS Papers>

- 495+ papers with 48,350+ citations (H=106)

6. Current Research Grants (PI)

Thematic Project

- Title: São Paulo Research and Analysis Center (SPRACE)
- Duration: 12/2013 a 11/2018 — FAPESP (Process 2013/01907-0)

Research Grant – University of Southampton

- Title: Exploring Higgs Boson and Beyond the Standard Model Theories at Large Hadron Collider
- Duration: 03/2014 a 02/2016 — FAPESP (Process 2013/50905-0)

Research Grant – University of Edinburgh

- Title: Combination of New Physics Searches at The Hadron Collider
- Duration: 07/2014 to 06/2016 — FAPESP (Process 2014/50208-0)

Research Grant – Texas Tech University

- Title: SPRACE-UNESP and TTU Collaboration in High-Energy Physics In the Compact Muon Solenoid Experiment at the Large Hadron Collider
- Duration: 07/2015 to 06/2017 — FAPESP (Process 2015/50009-0)

Research Grant – Imperial College of London

- Title: Dark Matter Search at LHC
- Duration: 07/2016 to 06/2018 — FAPESP (Process 2016/50013-0)

Research Fellowship

- Fellowship: Research Productivity – Level: “IB”
- Duration: since 1989 — CNPq