

Curriculum Vitae

Fernanda Gallinucci Garcia

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Education

- 2010 Strategic Laboratory Leadership Program, University of Chicago.
- 2000 Ph.D. Physics, University of São Paulo, São Paulo, Brazil.
- 1995 M.Sc. Physics, University of São Paulo, São Paulo, Brazil.

Professional Experience

Accelerator Division/Proton Source Department Jan 2004 - Present

- Proton Improvement Plan (PIP) (*Nov 2011 - Present*)
 - L2 manager for Linac projects
 - L3 manager for 200 MHz RF Power Systems
- Head of the FNAL Proton Source Linac Group (*Feb 2008 - Present*)
 - Assist in machine recovery and repair.
 - Beam studies in the Linac and analysis of machine performance.
 - Implement beam dynamic modification and accelerator adjustment to increase reliability and performance.
- Project Manager for Mucool Test Area (MTA) Facility (*2007*)
- Head of the 400MeV Transfer Line (*Jan 2004-Feb 2008*)
 - Re-designed, lead and coordinated the installation of Booster new injection scheme
- Member of the BooNE Collaboration
 - Head of Operations for the MiniBooNE Experiment (*May 2001 - Dec 2002*)
 - Head of MiniBooNE Detector (*Jan 2001 - Aug 2004*)
 - Responsible for the organization, coordination, preparation of the Mini-BooNE photoMultipliers (PMT) (*Nov 2000 - May 2001*)

Other Activities

Instructor for Saturday Morning Physics - Topic: Introduction to Accelerators	2013
Organizing committee of the Accelerator Physics and Technology Seminar (APTS)	2013-present
Member of the Fermilab Science Priorities Working Group	2013
Member of the MTA Internal Technical Review Committee	2012
Member of the 2005 DOE Annual Program Review Committee	2005
Chairperson for the Tevatron University (UTeV)	2000-2003
Elected Member of Fermilab Users Executive Committee (UEC)	2000-2003

Selected Publications

- W. Pellico et al., *FNAL - The Proton Improvement Plan (PIP)*
5th International Particle Accelerator Conference (IPAC2014)
June 15-20, 2014, Dresden, Germany.
- A.A. Aguilar-Arevalo et al., *First Measurement of the Muon Antineutrino Double Differential Charged Current Quasi-Elastic Cross Section*
arXiv:1301.7067, Phys. Rev. D88, 032001 (2013).
- A.A. Aguilar-Arevalo et al., *Improved Search for ν_μ to ν_e and $\bar{\nu}_\mu$ to $\bar{\nu}_e$ Oscillations in the MiniBooNE Experiment*
arXiv:1303.2588, Phys. Rev. Lett. 110, 161801 (2013).
- G. Cheng et al., *Dual Baseline search for Muon Antineutrino Disappearance at $0.1 < \Delta m^2 < 100 eV^2$,*
arXiv:1208.0322, Phys. Rev. D86, 052009 (2012).
- F.G. Garcia et. al., *FNAL Proton Source High Intensity Operations and Beam Loss Control*
52nd High Intensity ICFA Advanced Beam Dynamics Workshop on High-Intensity and High-Brightness Hadron Beams (HB2012)
September 17-21, 2012, Beijing, China.
Published at the HB 2012 - Session: TU03C - Working Group D: TU03C02.pdf
- F.G. Garcia et al., *Current and Planned High Proton Flux Operations at the FNAL Booster*
52nd High Intensity ICFA Advanced Beam Dynamics Workshop on High-Intensity and High-Brightness Hadron Beams (HB2012)

September 17-21, 2012, Beijing, China.

Published at the HB 2012 - Session: WE03A - Working Group C: WE03A04.pdf

A.A. Aguilar-Arevalo et al., *A Combined ν_μ to ν_e and $\bar{\nu}_\mu$ to $\bar{\nu}_e$ Oscillation Analysis of the MiniBooNE Excesses*,

arXiv:1207.4809, submitted to Phys. Rev. Lett.

Report of the Workshop held December 2011 in Rockville, MD, *Fundamental Physics at the Intensity Frontier*,

arXiv:1205.2671v1 [hep-ex] 11 May 2012.

A.A. Aguilar-Arevalo et al., *Test of Lorentz and CPT Violation with Short Baseline Neutrino Oscillation Excesses*,

arXiv:1109.3480 [hep-ex] submitted to Phys. Lett. B.

A.A. Aguilar-Arevalo et al., *Measurement of the Neutrino Component of an Anti-Neutrino Beam Observed by a Non-Magnetized Detector*,

arXiv:1102.1964 [hep-ex], Phys. Rev. D84, 072005 (2011).

E. McCrory et al., *Continued Monitoring of the Conditioning of the Fermilab Linac 805 MHz Cavities*

XXV Linear Accelerator Conference LINAC2010.

September 12-17, 2010, Tsukuba, Japan

C. Johnstone et al., *Commissioning of the Muon Test Area Beamline at Fermilab*
23rd Particle Accelerator Conference (PAC09)

May 4-8, 2009, Vancouver, British Columbia, Canada.

Proceedings of PAC09, TU6PFP081, p1481 (<http://trshare.triumf.ca/pac09proc/Proceedings/>)

J. Lackey et al., *Operation and Performance of the new Fermilab Nooster H^- Injection System*

22rd Particle Accelerator Conference (PAC07)

June 25-29, 2007, Albuquerque, New Mexico