Pedro A. N. Machado

CURRICULUM VITAE

August 16, 2019

ADDRESS: Fermi National Accelerator Laboratory

Theoretical Physics Group, WH3W, MS 106 P.O. Box 500 Kirk Road and Pine Street Batavia. Illinois. 60510-5011. USA

LANDLINE: +1 (630)840-3752

MOBILE: +1 (630)335-1153

EMAIL: pmachado@fnal.gov

CURRENT EMPLOYMENT

TITLE: Associate Scientist

EMPLOYER: Fermi National Accelerator Laboratory, USA

DATES: from 12/2017 to present

PREVIOUS EMPLOYMENT

TITLE: Research Associate (postdoctoral position)
AFFILIATION: Fermi National Accelerator Laboratory, USA

DATES: from 10/2016 to 12/2017

TITLE: Postdoctoral fellow

AFFILIATION: IFT, Universidad Autonoma de Madrid, Spain

DATES: from 10/2013 to 09/2016

UNIVERSITY EDUCATION

2009-2013 | Ph.D. at the University of São Paulo, São Paulo, Brazil

Supervisor: Renata Zukanovich Funchal Thesis: Topics in neutrino physics

Observation: During my Ph.D. I spent 6 months at Fermilab, 18 months

at CEA-Saclay and 3 months at CERN

2007-2009 | Master Student at the University of São Paulo, São Paulo, Brazil

Supervisor: Renata Zukanovich Funchal

Thesis: Formalism development for neutrino evolution in the early uni-

verse

2003-2007 | Bachelor in Physics at the Federal University of Ceará, Fortaleza, Brazil

DISTICTIONS

2019 DOE Early Career Award: The Next Revolution in Neutrino Physics. Prize totalizing \$2.5M.

2014 Honorific mention: José Leite Lopes Prize of the Brazilian Physical Society for the Best Brazilian Thesis in Physics 2013

OCT-DEC 2012	Marie Curie Ph.D. fellowship (UNILHC-ITN) at the CERN theory group, Geneva, Switzerland
2011-2012	Marie Curie Ph.D. fellowship (UNILHC-ITN) at IPhT-CEA, Saclay, France
2010	Student at the Program for Latin American Students 2010, Fermilab, Batavia IL,USA
2010-2013	Ph.D. scholarship from FAPESP funding agency
2009	Ph.D. scholarship from CAPES funding agency
2007-2009	Master scholarship from FAPESP funding agency
2004-2007	Undergraduate scholarship from FUNCAP funding agency

SUMMARY OF PUBLICATIONS

Citeable papers: 54

Number of citations: 2,616 Published papers: 37 Number of citations: 1,429

Source: INSPIRE-HEP (P.A.N.Machado.1), as of August 16, 2019

SERVICE

Member of the DUNE collaboration

Member of the Scientific Advisory Board of the Neutrino Theory Network

Organizer of the SBN-Theory working group

Organizer of the Theory Seminar Series at Fermilab, USA

Organizer of the "Pheno Coffee" journal club 2013-2016 at the IFT, Madrid

Tutor at the Invisibles 2015 School, Madrid, Spain Tutor at the Invisibles 2014 School, Paris, France

Referee for PRL, PRD, JHEP, EPJC, and PLB

ORGANIZATION OF EVENTS

2019 Organizer: 12th International Neutrino Summer School 2019, August 5-16, 2019, at Fermilab, IL, USA

Organizer: Topics in Cosmic Neutrino Physics 2019, October 9-11, 2019, at

Fermilab, IL, USA

Organizer: Neutrino Theory Network workshop on Neutrino Non-Standard

Interactions, May 29-31, 2019, at Washington U. in St. Louis, MI, USA

Convener: Neutrinos parallel session, SUSY 2019, May 20-24th, 2019, at Corpus Christi, TX, USA

2018 Local organizer: PONDD 2018 at Fermilab, USA

Convener: Particle Physics working group, TeVPA 2018 at Berlin, Germany **Convener:** WG5 (Neutrinos beyond PMNS), NUFACT 2018 at Virginia Tech, USA

2017 Convener: Neutrino theory working group, WIN 2017 at UC-Irvine, USA Organizer: Neutrino University summer lectures 2017 at Fermilab, USA

2015 Local organizer: Invisibles 2015 Workshop at the IFT, Madrid, Spain

Local organizer: Invisibles 2015 School at the IFT, Madrid, Spain

OUTREACH ACTIVITIES

Lecturer: Saturday Morning Physics 2018 at Fermilab, USA

Lecture "Enrico Fermi and Particle Physics," 2018, University of São Paulo, Brazil

Lecture at the Brazilian high school Colégio da Polícia Militar do Ceará, 2018, Fortaleza, Brazil

Organization of two days of the Invisibles 2015 Workshop at the Thyssen-Bornemisza Museum at Madrid, Spain

STUDENTS

2016 Elena Perdomo (M.Sc., now PhD student at University of Southampton)

2016 Javier Alonso (M.Sc., now PhD student at the IFT-Madrid)

LANGUAGES

PORTUGUESE: Native language

ENGLISH: Fluent
SPANISH: Advanced
FRENCH: Intermediate

ITALIAN: Basic

COMPUTER SKILLS

Languages: C, FORTRAN, PYTHON, Mathematica

Other: MadGraph, Pythia, MultiNEST, Micromegas, CalcHEP, FeynCalc, FeynRules,

FeynArts, CERNLIB, GSL, GLoBES, LaTeX, ...

Invited talks

Pedro A. N. MACHADO

INVITED TALKS AT EVENTS

Event: Dark Matter and Weak Interactions (DARKWIN) Conference

Location: Natal, Brazil
Date: September 2019

Plenary talk: New physics at the SBN program

Event: PINS 2019
Location: SLAC, CA, USA
Date: July 2019

Plenary talk: Sterile neutrinos: hints and global fits

Event: SBND collaboration meeting

Location: Ann Harbor, MI, USA

Date: June 2019

Plenary talk: Introduction to BSM in SBND

Event: Fermilab Users Meeting

Location: Fermilab, USA
Date: June 2019

Plenary talk: Theoretical challenges in neutrino physics

Event: SUSY 2019

Location: Corpus Christi, TX, USA

Date: May 2019 **Plenary talk:** Sterile Neutrinos

Event: Nuclear and Particle Theory for Accelerator Neutrino Experiments

Location: Fermilab, IL, USA

Date: May 2019

Talk: Neutrino-nucleus interactions from a neutrino phenomenology point

of view

Event: DCPIHEP 2019 Workshop: Neutrino mass, mixing, and BSM physics

Location: Comala, Colima, Mexico

Date: January 2019

Plenary talk: Theory and phenomenology of time dependent neutrino masses

Event: NP-HEP dialog on neutrino physics

Location: Jefferson Lab, USA
Date: November 2018

Plenary talk: The needs of the HEP Neutrino Theory; searching for new physics

Event: SBND Collaboration meeting

Location: Fermilab, USA
Date: September 2018
Plenary talk: SBN-Theory

Event: CIPANP 2018

Location: Palm Springs, CA, USA

Date: June 2018

Plenary talk: Neutrino oscillations

Event: QUePCO 2017
Location: Santa Fe, NM, USA
Date: August 2017

Plenary talk: Some aspects of neutrino BSM

Event: DPF 2017

Location: Fermilab, IL, USA
Date: August 2017

Plenary talk: Recent highlights from neutrino theory

Event: Weak Interactions and Neutrinos 2017 (WIN 2017)

Location: Irvine, CA, USA Date: June 2017

Plenary talk: Working Group Summary: Neutrino Physics (Theory)

Event: Precision Investigation of the Neutrino Sector (PINS 2017)

Location: SLAC, CA, USA Date: March 2017

Plenary talk: Neutrinos and New Flavor Physics

Event: Crossroads of NeutrinoPhysics program

Location: Mainz, Germany (MITP)

Date: July 2015

Talk: Non-standard neutrino interactions

Event: PPC 2015

Location: Deadwood, SD, USA

Date: July 2015

Plenary talk: Sterile neutrinos

Event: CETUP 2015

Location: Deadwood, SD, USA

Date: July 2015

Talk: Non-standard neutrino interactions

Event: Invisibles 2015 Workshop

Location: Madrid, Spain Date: June 2015

Talk: Global constraints on vector-like effective WIMP interactions

Event: Present and Future Neutrino Physics

Location: Santa Barbara, CA, USA

Date: November 2014

Talk: Perspective to measure CP phase in coming years Discussion: Beyond Standard Model physics with neutrinos

Event: Neutrino Oscillation Workshop 2014 (NOW)

Location: Otranto, Italy
Date: September 2014

Talk: Learning about the CP phase in the next 10 years

Event: ICFA Neutrino European Meeting

Location: Paris, France
Date: January 2014

Plenary talk: Sterile neutrino in the global picture

Event: Fundamental Physics, CMB and LSS in the light of the Plancksatellite

and DES

Location: Madrid, Spain Date: October 2013

Plenary talk: Sterile neutrino oscillations: the global picture

Event: XXIV Workshop on Weak Interactions and Neutrinos (WIN)

Location: Natal, Brazil
Date: September 2013

Talk: Sterile neutrino oscillations: the global picture

Event: GDR Neutrino 2013
Location: Lyon, France
Date: November 2013

Talk: Sterile neutrino oscillations: the global picture

Event: Invisibles 13 Workshop

Location: Durham, UK Date: July 2013

Talk: What can be done for δ_{CP} in the next 10 years?

Event: Rencontre de Physique des Particules 2012

Location: Montpellier, France

Date: May 2012

Talk: Theta 13 after Daya Bay

Event: Long-Baseline Neutrino Physics and Astrophysics

Location: Seattle, WA, USA (INT)

Date: August 2010

INVITED LECTURES

Event: Neutrino University summer lectures

Location: Fermilab, IL, USA

Date: July 2019

Lecture: Beyond the standard model physics with neutrino

Event: 2019 Undergraduate Lecture Series

Location: Fermilab, IL, USA

Date: June 2019

Lecture: Introduction to particle physics

Event: XX Escola de Verao Jorge Andre Swieca de Particulas e Campos

Location: Campos do Jordao, Sao Paulo, Brazil

Date: January 2019

Lecture: Introduction to standard model

Event: 10th International Neutrino Summer School 2017

Location: Fermilab, IL, USA
Date: August 2017

Lecture: Dirac and Majorana masses and neutrinos

INVITED SEMINARS AT UNIVERSITIES AND LABORATORIES

Illinois Institute of Technology

Location: Chicago, IL, USA Date: February 2019

Colloquium: Neutrinos: Challenges and Opportunities

University of Delaware

Location: Newark, DE, USA
Date: October 2018

Talk: Has MiniBooNE observed the mechanism behind neutrino masses?

Fermilab (Neutrino seminar series)

Location: Batavia, IL, USA
Date: October 2018

Talk: Has MiniBooNE observed the mechanism behind neutrino masses?

Federal University of Ceará

Location: Fortaleza, CE, Brazil

Date: August 2018

Talk: Introdução à física de neutrinos

Texas A&M

Location: College Station, TX, USA

Date: April 2018

Talk: Flavor gauge models below the Fermi scale

Notredame University Notredame, IN, USA

Location: Notredame, IN, Date: April 2018

Talk: Flavor gauge models below the Fermi scale

University of Wisconsin-Madison

Location: Madison, WI, USA

Date: Mar 2018

Talk: Flavor gauge models below the Fermi scale

University of Maryland

Location: University of Maryland, MA, USA

Date: March 2018

Talk: Distorted neutrino oscilations from ultralight dark matter

Northwestern University

Location: Evanston, IL, USA
Date: October 2017

Talk: Neutrinos and light new physics

Fermilab

Location: Batavia, IL, USA

Date: October 2017

Talk: New physics with neutrino physics

Fermilab (SBN meeting)

Location: Batavia, IL, USA
Date: September 2017

Talk: Large extra dimensions at SBN

Penn State University

Location: State College, PA, USA
Date: September 2017

Talk: New physics with neutrinos

PITT-PACC

Location: Pittsburgh, PA, USA
Date: September 2017

Talk: Neutrino theory: where do we stand and where are we going?

Argonne National Laboratory

Location: Argonne, IL, USA Date: February 2017

Talk: Flavor gauge models below the Fermi scale

Virginia Tech

Location: Blacksburg, VA, USA Date: February 2017

Talk: Neutrino Physics from dark matter experiments

Los Alamos National Laboratory

Location: Los Alamos, NM, USA

Date: February 2017

Talk: Beyond Standard Neutrinos

Fermilab

Location: Batavia, IL, USA Date: February 2017

Talk: Flavor gauge models below the Fermi scale

Oklahoma State University

Location: Stillwater, OK, USA
Date: January 2017

Talk: Beyond Standard Neutrinos

LHC Results Forum

Location: Austin, TX, USA (online)

Date: November 2016

Talk: An update on the status of sterile neutrino constraints

Instituto de Física, Universidade de São Paulo

Location: São Paulo, SP, Brazil

Date: August 2016

Talk: Neutrino physics in dark matter experiments

SLAC Theory department

Location: Menlo Park, CA, USA

Date: October 2015

Talk: Beyond Standard Physics in Neutrino Experiments

Centro de Analisis de Materiales, Universidade Autónoma de Madrid

Location: Madrid, Spain Date: March 2015

Talk: Particle Physics for Pedestrians

Université Montpellier 2

Location: Montpellier, France
Date: December 2014

Talk: One-loop bosonic effective Lagrangian for a dynamical Higgs

Johannes Gutenberg University

Location: Mainz, Germany

Date: July 2014

Talk: One-loop bosonic effective Lagrangian for a dynamical Higgs

LPSC - CEA-Grenoble

Location: Grenoble, France
Date: January 2014

Talk: What is new in neutrino physics?

IFT - Universidad Autónoma de Madrid

Location: Madrid, Spain
Date: September 2012

Talk: Does Higgs to gamma gamma taste like vanilla new physics?

IFIC - Universitat de València

Location: Valencia, Spain
Date: September 2012

Seminar: Does Higgs to gamma gamma taste like vanilla New Physics?

Laboratori Nazionali del Gran Sasso

Location: L'Áquila, Italy
Date: September 2012

Seminar: Does Higgs to gamma gamma taste like vanilla New Physics?

Max Planck Institut für kernphysik - Heidelberg

Location: Heidelberg, Germany

Date: March 2012

Seminar: Exploring neutrino signals in dark matter detectors

Fermilab

Location: Batavia, IL, USA
Date: lune 2011

Seminar: Probing Large Extra Dimensions with Neutrino Oscillations

List of Publications

Pedro A. N. MACHADO

PUBLICATIONS AND PREPRINTS

1. White Paper on New Opportunities at the Next-Generation Neutrino Experiments (Part 1: BSM Neutrino Physics and Dark Matter)

C. Argüelles et al.

[arXiv:1907.08311 [hep-ph]]

2. Neutrino Non-Standard Interactions: A Status Report

P. S. Bhupal Dev, K.S. Babu, P. B. Denton, P. A. N. Machado *et al.* [arXiv:1907.00991 [hep-ph]]

3. Where are the Next Higgs Bosons?

C. T. Hill, P. A. N. Machado, A. E. Thomsen, J. Turner Phys.Rev. **D100** (2019) no.1, 015051 [arXiv:1904.04257 [hep-ph]]

4. Sub-GeV Atmospheric Neutrinos and CP-Violation in DUNE

K. J. Kelly, P. A. N. Machado, I. Martinez-Soler, S. J. Parke, Y. F. Perez-Gonzalez [arXiv:1904.02751 [hep-ph]]

5. Hunting On- and Off-Axis for Light Dark Matter with DUNE-PRISM

V. De Romeri, K. J. Kelly, P. A. N. Machado [arXiv:1903.10505 [hep-ph]]

6. The Short-Baseline Neutrino Program at Fermilab

P. A. N. Machado, O. Palamara, D. W. Schmitz Ann.Rev.Nucl.Part.Sci. 69 [arXiv:1903.04608 [hep-ph]]

7. Scalar Democracy

C. T. Hill, Pedro A. N. Machado, A. E. Thomsen, J. Turner Phys.Rev. **D100** (2019) no.1, 015015 [arXiv:1902.07214 [hep-ph]]

8. Constraining Sterile Neutrino Interpretations of the LSND and MiniBooNE Anomalies with Coherent Neutrino Scattering Experiments

C. Blanco, D. Hooper, P. A. N. Machado [arXiv:1901.08094 [hep-ph]]

9. How high is the neutrino floor?

C. Boehm, D.G. Cerdeño, P. A. N. Machado, A. Olivares-Del Campo, E. Reid JCAP 1901 (2019) 043, [arXiv:1809.06385 [hep-ph]]

10. Multimessenger Astronomy and New Neutrino Physics

K. J. Kelly, P. A. N. Machado JCAP 1810 (2018) no.10, 048 [arXiv:1808.02889 [hep-ph]]

11. Neutrino Masses and Mixings Dynamically Generated by a Light Dark Sector

E. Bertuzzo, S. Jana, P. A. N. Machado, R. Zukanovich Funchal Phys.Lett. B791 (2019) 210-214, [arXiv:1808.02500 [hep-ph]]

12. A Dark Neutrino Portal to Explain MiniBooNE

E. Bertuzzo, S. Jana, P. A. N. Machado, R. Zukanovich Funchal Phys.Rev.Lett. 121 (2018) no.24, 241801, [arXiv:1807.09877 [hep-ph]]

13. Natural and Dynamical Neutrino Mass Mechanism at the LHC

J. Gehrlein, D. Goncalves, P. A. N. Machado , Y. F. Perez-Gonzalez Phys.Rev. **D98** (2018) no.3, 035045 [arXiv:1804.09184 [hep-ph]]

14. Updated global analysis of neutrino oscillations in the presence of eV-scale sterile neutrinos

M. Dentler, A. Hernandez-Cabezudo, J. Kopp, P. A. N. Machado, M. Maltoni, I. Martinez-Soler, T. Schwetz

JHEP 1808 (2018) 010 [arXiv:1803.10661 [hep-ph]]

15. Neutrinos in Large Extra Dimensions and Short-Baseline ν_e Appearance M. Carena, Y.-Y. Li, C.S. Machado, P. A. N. Machado, C.E.M. Wagner Phys.Rev. D**96** (2017) no.9, 095014 [arXiv:1708.09548 [hep-ph]]

16. Dark Matter and the elusive Z' in a dynamical Inverse Seesaw scenario V. De Romeri, E. Fernandez-Martinez, J. Gehrlein, P. A. N. Machado, V. Niro JHEP 1710 (2017) 169 [arXiv:1707.08606 [hep-ph]]

17. Double Bangs from New Physics in IceCube

P. Coloma, P. A. N. Machado, I. Martinez-Soler, I. M. Shoemaker Phys.Rev.Lett. 119 (2017) no.20, 201804 [arXiv:1707.08573 [hep-ph]]

18. A Neutrinophilic 2HDM as a UV Completion for the Inverse Seesaw Mechanism

E. Bertuzzo, P. A. N. Machado, Z. Tabrizi, R. Zukanovich Funchal JHEP 1711 (2017) 004 [arXiv:1706.10000 [hep-ph]]

19. Constraints from Triple Gauge Couplings on Vectorlike Leptons

E. Bertuzzo, P. A. N. Machado, Y. F. Perez-Gonzalez, R. Zukanovich Funchal Phys.Rev. **D96** (2017) no.3, 035035 [arXiv:1706.03073 [hep-ph]]

20. Distorted Neutrino Oscillations From Ultralight Scalar Dark Matter

G. Krnjaic, P. A. N. Machado, L. Necib Phys.Rev. D**97** (2018) no.7, 075017 [arXiv:1705.06740 [hep-ph]]

21. Flavor Gauge Models Below the Fermi Scale

K. S. Babu, A. Friedland, P. A. N. Machado, I. Mocioiu JHEP 1712 (2017) 096 [arXiv:1705.01822 [hep-ph]]

22. Simplified Models for Dark Matter Face their Consistent Completions

D.Goncalves, P. A. N. Machado, J. M. No Phys.Rev. D**95** (2017) no.5, 055027 [arXiv:1611.04593 [hep-ph]]

23. The linear-non-linear frontier for the Goldstone Higgs

M. B. Gavela, K. Kanshin, P. A. N. Machado, S. Saa. Eur. Phys. J. C76 (2016) no.12, 690 [arXiv:1610.08083 [hep-ph]]

24. Physics at a 100 TeV pp collider: beyond the Standard Model phenomena

T. Golling et al.

[arXiv:1606.00947 [hep-ph]]

25. Physics from solar neutrinos in dark matter direct detection experiments

D. G. Cerdeno, Malcolm, M. Fairbairn, T. Jubb, P. A. N. Machado, A. C. Vincent, C. Boehm JHEP 1605 (2016) 118 [arXiv:1604.01025 [hep-ph]]

26. The minimal linear sigma model for the Goldstone Higgs

F. Feruglio, B. Gavela, K. Kanshin, P. A. N. Machado, S. Rigolin, S. Saa JHEP 1606 (2016) 038 [arXiv:1603.05668 [hep-ph]]

27. Di-Photon excess in 2HDM: hasting towards the instability and the non-perturbative regime

E. Bertuzzo, P. A. N. Machado, M. Taoso Phys. Rev. **D94** (2016) 115006 [arXiv:1601.07508 [hep-ph]]

28. Global constraints on vector-like WIMP effective interactions

M. Blennow, P. Coloma, E. Fernandez-Martinez, P. A. N. Machado, B. Zaldivar JCAP 1604 (2016) no.04, 015 [arXiv:1509.01587 [hep-ph]]

29. On the Viability of Minimal Neutrinophilic Two-Higgs-Doublet Models

P. A. N. Machado, Y. F. Perez, O. Sumensari, Z. Tabrizi, R. Zukanovich Funchal JHEP 1512 (2015) 160 [arXiv:1507.07550 [hep-ph]]

30. Lepton Jets from Radiating Dark Matter

M. Buschmann, J. Kopp, J. Liu, P. A. N. Machado JHEP 07 (2015) 045 [arXiv:1505.07459 [hep-ph]]

31. On the renormalization of the electroweak chiral Lagrangian with a Higgs

M. B. Gavela, K. Kanshin, P. A. N. Machado, S. Saa JHEP 1503 (2015) 043 [arXiv:1409.1571 [hep-ph]]

32. What can we learn about the lepton CP phase in the next 10 years?

P. A. N. Machado, H. Minakata, H. Nunokawa, R. Zukanovich Funchal JHEP 1405 (2014) 109 [arXiv:1307.3248 [hep-ph]]

33. Sterile Neutrino Oscillations: The Global Picture

J. Kopp, P. A. N. Machado, M. Maltoni, T. Schwetz JHEP 1305 (2013) 050 [arXiv:1303.3011 [hep-ph]]

34. Neutrino Mass Matrix Textures: A Data-driven Approach

E. Bertuzzo, P. A. N. Machado, R. Zukanovich Funchal JHEP 1306 (2013) 097 [arXiv:1302.0653 [hep-ph]]

35. Can New Colored Particles Illuminate the Higgs?

E. Bertuzzo, P. A. N. Machado, R. Zukanovich Funchal JHEP 1302 (2013) 086 [arxiv:1209.6359[hep-ph]]

36. Potential of a neutrino detector in the ANDES underground laboratory for geophysics and astrophysics of neutrinos

P. A. N. Machado, T. Mühlbeier, H. Nunokawa, R. Zukanovich Funchal Phys. Rev. D86 (2012) 125001 [arXiv:1202.6073 [hep-ph]]

37. Does $H \rightarrow \gamma \gamma$ Taste like vanilla New Physics?

L. G. Almeida, E. Bertuzzo, P. A. N. Machado, R. Zukanovich Funchal JHEP 1211 (2012) 085 [arXiv:1207.5254 [hep-ph]]

38. Light Sterile Neutrinos: A White Paper

K. N. Abazajian *et al.* [arXiv:1204.5379 [hep-ph]]

39. Exploring nu signals in dark matter detectors

R. Harnik, J. Kopp, P. A. N. Machado JCAP 07 (2012) 026 [arXiv:1202.6073 [hep-ph]]

40. Combining accelerator and reactor measurements of theta_13; The first result

P. A. N. Machado, H. Minakata, H. Nunokawa, R. Zukanovich Funchal JHEP 05 (2012) 023 [arXiv:1111.3330 [hep-ph]]

41. Testing nonstandard neutrino properties with a Mössbauer oscillation experiment

P. A. N. Machado, H. Nunokawa, F. A. Pereira dos Santos, R. Zukanovich Funchal JHEP 1111 (2011) 136 [arXiv:1108.3339 [hep-ph]]

42. Bulk neutrinos as an alternative cause of the gallium and reactor anti-neutrino anomalies

P. A. N. Machado, H. Nunokawa, F. A. Pereira dos Santos, R. Zukanovich Funchal Phys. Rev. D85 (2012) 073012 [arXiv:1107.2400 [hep-ph]]

43. Testing for large extra dimensions with neutrino oscillations

P. A. N. Machado, H. Nunokawa, R. Zukanovich Funchal Phys. Rev. **D84** (2011) 013003 [arXiv:1101.0003 [hep-ph]]

44. Interpretation of MINOS data in terms of non-standard neutrino interactions

J. Kopp, P. A. N. Machado, S. J. Parke

Phys. Rev. D82 (2010) 113002 [arXiv:1009.0014 [hep-ph]]

CONFERENCE PROCEEDINGS

Center for Theoretical Underground Physics and Related Areas (CETUP*)

Flavor effects at the MeV and TeV scales

P. A. N. Machado

AIP Conf.Proc. 1743 (2016) 030005

IX International Conference on Interconnections between Particle Physics and Cosmology (PPC2015)

Sterile neutrinos

J. Kopp, P. A. N. Machado, M. Maltoni, T. Schwetz

AIP Conf.Proc. 1743 (2016) 050009

CORFU 2014: 14th Hellenic School and Workshops on Elem. Part. Phys. and Gravity

On Bimaximal Neutrino Mixing and GUT's

G. Altarelli, P. A. N. Machado, D. Meloni

PoS CORFU2014 (2015) 012

NOW 2014: Neutrino Oscillation Workshop

Learning about the CP phase in the next 10 years

P. A. N. Machado

Nuc. Part. Phys. Proc. 265-266 (2015)

Neutel 2013: 15th Int. Workshop on Neutrino Telescopes

Global Status of Sterile Neutrino Scenarios

J. Kopp, P. A. N. Machado, M. Maltoni, T. Schwetz

PoS Neutel2013 (2013) 019

TAUP 2011: 12th Int. Conference on Topics in Astroparticle and Underground Physics *Potential of the ANDES Underground Laboratory for neutrino geophysics and astrophysics*

P. A. N. Machado, T. Mühlbeier, H. Nunokawa, R. Zukanovich Funchal

J. Phys. Conf. Ser. 375, 042062 (2012)

TAUP 2011: 12th Int. Conference on Topics in Astroparticle and Underground Physics

Large extra dimensions and reactor antineutrino anomaly

P. A. N. Machado, H. Nunokawa, F. A. Pereira dos Santos, R. Zukanovich Funchal

J. Phys. Conf. Ser. 375, 042047 (2012)

NuFact11: 13th Int. Workshop on Neutrino Factories, Superbeams and Beta beams Large Extra Dimensions and Neutrino Oscillations

P. A. N. Machado, H. Nunokawa, F. A. Pereira dos Santos, R. Zukanovich Funchal [arXiv:1110.1465 [hep-ph]]

NOW 2010: Neutrino Oscillation Workshop

Probing Extra Dimensions with Neutrino Oscillations

P. A. N. Machado, H. Nunokawa, R. Zukanovich Funchal

Nucl. Phys. Proc. Suppl. 217 (2011) 357