

Curriculum Vitae Daniel Wegman

Date and place of Birth: April 24 1982, Mexico City, Mexico

Gender: Male

Nationality: Mexican

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Present Academic Status

PhD candidate, estimated finishing date: July 2013

Academic Advisor: Prof. Ernest Ma

GPA 3.88

University of California, Riverside (UCR), USA.

Academic Background

M.Sc. in Physics, Departamento de Física. CINVESTAV. Mexico City. Mexico

Academic Advisor: Abdel Pérez-Lorezana.

Average 8.7/10

August 2005-December 2007

B.Sc. in Physics Engineering, Universidad Iberoamericana, Santa Fe. Mexico City. Mexico

Average 9.07 /10

August 2000-February 2005

Teaching and work experience

Lecturer:

Fall 2007-Winter 2008, Universidad Iberoamericana, Santa Fe, Mexico City, Mexico.

Summer 2011, University of California, Riverside, USA.

Teaching Assistant:

Fall 2008-current, University of California, Riverside, USA

Research Assistant:

Summer 2005, Alfa project summer internship, Universita' Degli Studi Di Torino/INFN, Turin, Italy.

Social work:

Spring 2004, Papalote museo del niño, División del Domo Digital, Mexico City, Mexico

Area of Specialization

Particle Physics theory and phenomenology: Neutrino physics, single and multicandidate Dark Matter models, Supersymmetry, Gauge extensions to the Standard Model, collider analysis of new physics signals, Grand-Unified Theories,

Awards and Fellowships

CONACYT fellowship master's degree 2005-2008
CONACYT-MEXUS fellowship PhD 2008-2013
Outstanding Teaching Assistant, University of California, Riverside 2010

Schools/Conferences/Workshops

Theoretical Advanced Study Institute in Elementary Particle Physics (TASI), “Searching for New Physics at Small and Large Scales”, University of Colorado, Boulder, Colorado, USA. June 4- 29, 2012

PASI2012 - Exploring the Terascale and Beyond, University of Buenos Aires, Buenos Aires, Argentina, March 5-16, 2012

Search for Baryon and Lepton Number Violations International Workshop, Lawrence Berkeley National Laboratory, Berkeley, California, USA. September 20-22, 2007

Computational expertise

Mathematica

Monte carlo calculation using PYTHIA and CalcHEP

Dark matter related calculations using MicroOmega.

List of publications

1-Muon-Tau Symmetry and Leptogenesis in the Minimal Seesaw Model. Daniel Wegman Ostrosky. Jan 2008. 61.e-Print: arXiv:0801.3054 [hep-ph] . Master's thesis written under the advise of Abdel Pérez-Lorenzana.

2-Probing Lepton Flavor Triality with Higgs Boson Decay. Qing-Hong Cao, Asan Damanik, Ernest Ma, Daniel Wegman. Mar 2011. Phys.Rev. D83 (2011) 093012. e-Print: arXiv:1103.0008 [hep-ph]

3-Nonzero θ_{13} for neutrino mixing in the context of $A(4)$ symmetry. Ernest Ma, Daniel Wegman . Jun 2011. Phys.Rev.Lett. 107 (2011) 061803. e-Print: arXiv:1106.4269 [hep-ph]

4-Dark Vector-Gauge-Boson Model.

Subhaditya Bhattacharya, J.Lorenzo Diaz-Cruz, Ernest Ma, Daniel Wegman. Jul 2011. Phys.Rev. D85 (2012) 055008 e-Print: arXiv:1107.2093 [hep-ph]

5-Heptagonal Symmetry for Quarks and Leptons. Subhaditya Bhattacharya, Ernest Ma, Alexander Natale, Daniel Wegman. Oct 2012. Phys. Rev. D 87, 013006 (2013). e-Print: arXiv:1210.6936 [hep-ph]

Referees

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