

AHEP GROUP 5-YEAR PUBLICATIONS (2007-2012)

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1. Minimal supergravity threshold effects on the tri-bimaximal neutrino mixing pattern

M. Hirsch, E. Ma, J.C. Romão, J.W.F. Valle y A. Villanova del Moral
Physical Review D 75 (2007) 053006 [arXiv: hep-ph/0606082]

2. Thermal leptogenesis in extended supersymmetric seesaw

M. Hirsch, J.W.F. Valle, M. Malinsky, J.C. Romão y U. Sarkar
Physical Review D 75 (2007) 011701 [arXiv: hep-ph/0608006]

3. Ultrahigh Energy Neutrinos in the Mediterranean: Detecting tau and muon neutrinos with a km³ Telescope

A. Cuoco, G. Mangano, G. Miele, S. Pastor, L. Perrone, O. Pisanti y P.D. Serpico
Journal of Cosmology and Astroparticle Physics 0702 (2007) 007 [arXiv: astro-ph/0609241]

4. Flavor Symmetry and Vacuum Aligned Mass Textures

S. Kaneko, H. Sawanaka, T. Shingai, M. Tanimoto y K. Yoshioka
Progress of Theoretical Physics 117 (2007) 161-181 [arXiv: hep-ph/0609220]

5. Decay of Charged Higgs boson in TeV scale supersymmetric seesaw model

G.C. Cho, S. Kaneko y A. Omote
Physics Letters B 652 (2007) 325-330 [arXiv: hep-ph/0611240]

6. Soft leptogenesis in the inverse seesaw model

J. Garayoa, M.C. González-García y N. Rius
Journal of High Energy Physics 0702 (2007) 021 [arXiv: hep-ph/0611311]

7. Probing the internal solar magnetic field through g-modes

T.I. Rashba, V.B. Semikoz, S. Turck-Chièze y J.W.F. Valle
Monthly Notices of the Royal Astronomical Society 377 (2007) 453-458 [arXiv: astro-ph/0611728]

8. Just so Higgs boson

F. Bazzocchi, M. Fabbrichesi y P. Ullio
Physical Review D 75 (2007) 056004 [arXiv: hep-ph/0612280]

9. Model for fermion masses and lepton mixing in SO(10) x A4

S. Morisi, M. Picariello y E. Torrente-Luján
Physical Review D 75 (2007) 075015 [arXiv: hep-ph/0702034]

10. Predictive symmetries of the neutrino mass matrix

M. Hirsch, A.S. Joshipura, S. Kaneko y J.W.F. Valle
Physical Review Letters 99 (2007) 151802 [arXiv: hep-ph/0703046]

11. Flavor Symmetry and Vacuum Aligned Mass Textures

S. Kaneko, H. Sawanaka, T. Shingai, M. Tanimoto y K. Yoshioka
International Journal of Modern Physics E 16 (2007) 1427-1436 [arXiv: hep-ph/0703250]

12. Quark masses and mixings in E6 x S3: A Monte Carlo approach

S. Morisi
International Journal of Modern Physics A 22 (2007) 2921-2933

13. Probing non-standard neutrino interactions with supernova neutrinos

A. Esteban-Pretel, R. Tomàs y J.W.F. Valle
Physical Review D 76 (2007) 053001 [arXiv: 0704.0032]

14. Insensitivity of leptogenesis with flavor effects to low energy leptonic CP violation

S. Davidson, J. Garayoa, F. Palorini y N. Rius
Physical Review Letters 99 (2007) 161801 [arXiv: 0705.1503]

15. Decaying warm dark matter and neutrino masses

M. Lattanzi y J.W.F. Valle
Physical Review Letters 99 (2007) 121301 [arXiv: 0705.2406]

- 16. Exact relativistic beta decay endpoint spectrum**
S.S. Masood, S. Nasri, J. Schechter, M.A. Tórtola, J.W.F. Valle y C. Weinheimer
Physical Review C 76 (2007) 045501 [arXiv: 0706.0897]
- 17. Decoherence in supernova neutrino transformations suppressed by deleptonization**
A. Esteban-Pretel, S. Pastor, R. Tomàs, G.G. Raffelt y G. Sigl
Physical Review D 76 (2007) 125018 [arXiv: 0706.2498]
- 18. Natural dark matter in SUSY GUTs with non-universal gaugino masses**
S.F. King, J.P. Roberts y D.P. Roy
Journal of High Energy Physics 0710 (2007) 106 [arXiv:0705.4219]
- 19. CP violation and neutrino oscillations**
H. Nunokawa, S.J. Parke y J.W.F. Valle
Progress in Particle and Nuclear Physics 60 (2008) 338-402 [arXiv:0710.0554]
- 20. Embedding A(4) into left-right symmetry: Tribimaximal neutrino mixing and fermion hierarchy**
F. Bazzocchi, S. Morisi y M. Picariello
Physics Letters B 659 (2008) 628-633 [arXiv:0710.2928]
- 21. Variations on leptogenesis**
D. Aristizábal Sierra, M. Losada y E. Nardi
Physics Letters B 659 (2008) 328-335 [arXiv:0705.1489]
- 22. Disentangling neutrino-nucleon cross section and high energy neutrino flux with a km³ neutrino telescope.**
E. Borriello, A. Cuoco, G. Mangano, G. Miele, S. Pastor, O. Pisanti y P.D. Serpico
Physical Review D 77 (2008) 045019 [arXiv: 0711.0152]
- 23. Mu-tau neutrino refraction and collective three-flavor transformations in supernovae**
A. Esteban-Pretel, S. Pastor, R. Tomàs, G.G. Raffelt y G. Sigl
Physical Review D 77 (2008) 065024 [arXiv: 0712.1137]
- 24. Role of dense matter in collective supernova neutrino transformations**
A. Esteban-Pretel, A. Mirizzi, S. Pastor, R. Tomàs, G.G. Raffelt, P.D. Serpico y G. Sigl
Physical Review D 78 (2008) 085012 [arXiv: 0807.0659]
- 25. A SUSY A(4) model for fermion masses and mixings**
F. Bazzocchi, S. Kaneko y S. Morisi
Journal of High Energy Physics 0803 (2008) 063 [arXiv:0707.3032]
- 26. CP observables with spin-spin correlations in chargino production.**
A. Bartl, K. Hohenwarter-Sodek, T. Kernreiter, O. Kittel y M. Terwort
Nuclear Physics B 802 (2008) 77-91 [arXiv:0802.3592]
- 27. Constraining non-standard neutrino-electron interactions.**
J. Barranco, O.G. Miranda, C.A. Moura y J.W.F. Valle
Physical Review D 77 (2008) 093014 [arXiv:0711.0698]
- 28. Polarized positrons and electrons at the linear collider**
G. Moortgat-Pick et al (incluye a W. Porod)
Physics Reports 460 (2008) 131-243 [arXiv: hep-ph/0507011]
- 29. Lepton asymmetries and the growth of cosmological seed magnetic fields**
V.B. Semikoz y J.W.F. Valle
Journal of High Energy Physics 0803 (2008) 067 [arXiv:0704.3978]
- 30. Astrophysical interpretation of the medium scale clustering in the ultrahigh energy sky**
A. Cuoco, G. Miele y P.D. Serpico
Physics Letters B 660 (2008) 307-314 [arXiv:0706.2864]
- 31. Fermion masses, Leptogenesis and Supersymmetric SO(10) Unification**
J.C. Romão , M.A. Tórtola, M. Hirsch y J.W.F. Valle
Physical Review D 77 (2008) 055002 [arXiv:0707.2942]

- 32. High energy neutrino yields from astrophysical sources II: Magnetized sources**
M. Kachelriess, S. Ostapchenko y R. Tomàs
Physical Review D 77 (2008) 023007 [arXiv:0708.3047]
- 33. Angular signatures of annihilating dark matter in the cosmic gamma-ray background**
A. Cuoco, J. Brandbyge, S. Hannestad, T. Haugbølle y G. Miele
Physical Review D 77 (2008) 123518 [arXiv:0710.4136]
- 34. Leptoquarks: Neutrino masses and accelerator phenomenology**
D. Aristizábal, M. Hirsch y S.G. Kovalenko
Physical Review D 77 (2008) 055011 [arXiv:0710.5699]
- 35. Probing a supersymmetric model for neutrino masses at ultra-high energy neutrino telescopes**
M. Hirsch, D.P. Roy y J.W.F. Valle
Physics Letters B 662 (2008) 185-189 [arXiv:0712.1711]
- 36. Probing bilinear R-parity violating supergravity at the LHC**
F. de Campos, O.J.P. Eboli, M.B. Magro, W. Porod, D. Restrepo, M. Hirsch y J.W.F. Valle
Journal of High Energy Physics 0805 (2008) 048 [arXiv:0712.2156]
- 37. Spontaneous R-parity violation: Lightest neutralino decays and neutrino mixing angles at future colliders**
M. Hirsch, W. Porod y A. Vicente
Physical Review D 77 (2008) 075005 [arXiv:0802.2896]
- 38. Probing minimal supergravity in type I see-saw with lepton flavor violation at the LHC**
M. Hirsch, W. Porod, J.C. Romão, J.W.F. Valle y A. Villanova del Moral
Physical Review D 78 (2008) 013006 [arXiv:0804.4072]
- 39. X-ray photons from late-decaying majoron dark matter**
F. Bazzocchi, M. Lattanzi, S. Riemer-Sørensen y J.W.F. Valle
Journal of Cosmology and Astroparticle Physics 0808 (2008) 013 [arXiv:0805.2372]
- 40. Can OPERA help in constraining neutrino non-standard interactions?**
A. Esteban-Pretel, P. Huber y J.W.F. Valle
Physics Letters B 668 (2008) 197-201 [arXiv:0803.1790]
- 41. Observables sensitive to absolute neutrino masses. II**
G.L. Fogli, E. Lisi, A. Marrone, A. Melchiorri, A. Palazzo, A.M. Rotunno, P. Serra, J. Silk y A. Slosar
Physical Review D 78 (2008) 033010 [arXiv:0805.2517]
- 42. Hints of $\theta_{13} > 0$ from global neutrino data analysis**
G.L. Fogli, E. Lisi, A. Marrone, A. Palazzo y A.M. Rotunno
Physical Review Letters 101 (2008) 141801 [arXiv: 0806.2649]
- 43. CP violation in the SUSY seesaw: leptogenesis and low energy**
S. Davidson, J. Garayoa, F. Palorini y N. Rius
Journal of High Energy Physics 0809 (2008) 053 [arXiv:0806.2832]
- 44. Minimal supergravity sneutrino dark matter and inverse see-saw neutrino masses**
C. Arina, F. Bazzocchi, N. Fornengo, J.C. Romão y J.W.F. Valle
Physical Review Letters 101 (2008) 161802 [arXiv: 0806.3225]
- 45. Three-flavour neutrino oscillation update**
T. Schwetz, M.A. Tórtola y J.W.F. Valle
New Journal of Physics 10 (2008) 113011 [arXiv:0808.2016]
- 46. Parameter degeneracy in flavor-dependent reconstruction of supernova neutrino fluxes**
H. Minakata, H. Nunokawa, R. Tomàs y J.W.F. Valle
Journal of Cosmology and Astroparticle Physics 0812 (2008) 006 [arXiv:0802.1489]
- 47. Tri-bimaximal neutrino mixing and neutrinoless double beta decay**
S. Morisi, M. Hirsch y J.W.F. Valle
Physical Review D 78 (2008) 093007 [arXiv:0804.1521]
- 48. Supersymmetric type II seesaw mechanism: CERN LHC and lepton flavor violating phenomenology**
M. Hirsch, S. Kaneko y W. Porod
Physical Review D 78 (2008) 093004 [arXiv:0806.3361]

49. Collider aspects flavor physics at high Q

T. Lari et al [incluye a D. Aristizábal, M. Hirsch, J.W.F. Valle y A. Villanova del Moral]
European Physical Journal C 57 (2008) 183-307 [arXiv:0801.1800]

50. Fermion masses and mixing in models with SO(10) x A₄ symmetry

F. Bazzocchi, M. Frigerio y S. Morisi
Physical Review D 78 (2008) 116018 [arXiv:0809.3573]

51. Measuring lepton flavour violation at LHC with long-lived slepton in the coannihilation region

S. Kaneko, J. Sato, T. Shimomura, O. Vives y M. Yamanaka
Physical Review D 78 (2008) 116013 [arXiv:0811.0703]

52. Embedding A₄ into SU(3)xU(1) flavor symmetry: large neutrino mixing & fermion mass hierarchy in SO(10)

F. Bazzocchi, S. Morisi, M. Picariello y E. Torrente-Luján
Journal of Physics G 36 (2009) 015002 [arXiv:0802.1693]

53. Working group report: Neutrino Physics

S. Choubey et al [incluye a M. Hirsch]
Pramana - Journal of Physics 72 (2009) 269-275

54. The neutrino mass matrix and (selected) variants of A₄

M. Hirsch
Pramana - Journal of Physics 72 (2009) 183-193

55. Physics at a future Neutrino Factory and super-beam facility

A. Bandyopadhyay et al [incluye a J.W.F. Valle]
Reports on Progress in Physics 72 (2009) 106201 [arXiv:0710.4947]

56. Using tau polarization to probe the stau co-annihilation region of mSUGRA model at LHC

R.M. Godbole, M. Guchait y D.P. Roy
Physical Review D 79 (2009) 095015 [arXiv:0807.2390]

57. Relic density of neutrinos with primordial asymmetries

S. Pastor, T. Pinto y G.G. Raffelt
Physical Review Letters 102 (2009) 241302 [arXiv:0808.3137]

58. Primordial Nucleosynthesis: from precision cosmology to fundamental physics

F. Iocco, G. Mangano, G. Miele, O. Pisanti y P.D. Serpico
Physics Reports 472 (2009) 1-76 [arXiv:0809.0631]

59. Finding the Higgs Boson through Supersymmetry

F. de Campos, O.J.P. Eboli, M.B. Magro, D. Restrepo y J.W.F. Valle
Physical Review D 80 (2009) 015002 [arXiv:0809.1637]

60. Radio constraints on dark matter annihilation in the galactic halo and its substructures

E. Borriello, A. Cuoco y G. Miele
Physical Review D 79 (2009) 023518 [arXiv:0809.2990]

61. Modelling tri-bimaximal neutrino mixing

M. Hirsch, S. Morisi y J.W.F. Valle
Physical Review D 79 (2009) 016001 [arXiv:0810.0121]

62. S₄ as a natural flavor symmetry for lepton mixing

F. Bazzocchi y S. Morisi
Physical Review D 80 (2009) 096005 [arXiv:0811.0345]

63. Neutrino masses, leptogenesis and dark matter in hybrid seesaw

P.H. Gu, M. Hirsch, U. Sarkar y J.W.F. Valle
Physical Review D 79 (2009) 033010 [arXiv:0811.0953]

64. Probing non-standard neutrino-electron interactions with solar and reactor neutrinos

A. Bolaños, O.G. Miranda, A. Palazzo, M.A. Tórtola y J.W.F. Valle
Physical Review D 79 (2009) 113012 [arXiv:0812.4417]

65. **Tri-Bimaximal lepton mixing with $A_4 \times (Z_2)^3$**
S. Morisi
Physical Review D 79 (2009) 033008 [arXiv:0901.1080]
66. **Fermion masses and mixings in a S_4 based model**
F. Bazzocchi, L. Merlo y S. Morisi
Nuclear Physics B 816 (2009) 204-226 [arXiv:0901.2086]
67. **Majoron emission in muon and tau decays revisited**
M. Hirsch, A. Vicente, J. Meyer y W. Porod
Physical Review D 79 (2009) 055023 [arXiv:0902.0525]
68. **Phenomenological Consequences of See-Saw in S_4 Based Models**
F. Bazzocchi, L. Merlo y S. Morisi
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69. **Flavour violation at the LHC: type-I versus type-II seesaw in minimal supergravity**
J.N. Esteves, M. Hirsch, W. Porod, J.C. Romão, J.W.F. Valle y A. Villanova del Moral
Journal of High Energy Physics 05 (2009) 003 [arXiv:0903.1408]
70. **LHC phenomenology of the $\mu\nu$ SSM**
A. Bartl, M. Hirsch, A. Vicente, S. Liebler y W. Porod
Journal of High Energy Physics 05 (2009) 120 [arXiv:0903.3596]
71. **Sensitivity on Earth Core and Mantle densities using Atmospheric Neutrinos**
E. Borriello, G. Mangano, A. Marotta, G. Miele, P. Migliozzi, C.A. Moura, S. Pastor, O. Pisanti y P.E. Strolin
Journal of Cosmology and Astroparticle Physics 06 (2009) 030 [arXiv:0904.0796]
72. **Impact of squark generation mixing on the search for gluinos at LHC**
A. Bartl, K. Hidaka, K. Hohenwarter-Sodek, T. Kernreiter, W. Majerotto y W. Porod
Physics Letters B 679 (2009) 260-266 [arXiv:0905.0132]
73. **A_4 -based tri-bimaximal mixing within inverse and linear seesaw schemes**
M. Hirsch, S. Morisi y J.W.F. Valle
Physics Letters B 679 (2009) 454-459 [arXiv:0905.3056]
74. **Is the baryon asymmetry of the Universe related to galactic magnetic fields?**
V.B. Semikoz, D.D. Sokoloff y J.W.F. Valle
Physical Review D 80 (2009) 083510 [arXiv:0905.3365]
75. **On the full Boltzmann equations for Leptogenesis**
J. Garayoa, S. Pastor, T. Pinto, N. Rius y O. Vives
Journal of Cosmology and Astroparticle Physics 09 (2009) 035 [arXiv:0905.4834]
76. **Constraining nonstandard neutrino-quark interactions with solar, reactor and accelerator data**
F.J. Escrivuela, O.G. Miranda, M.A. Tórtola y J.W.F. Valle
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77. **Inverse tri-bimaximal type-III seesaw and lepton flavor violation**
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78. **Dark matter in minimal supergravity with type-II seesaw**
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81. **An A_4 model for lepton masses and mixings**
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82. Calculable inverse-seesaw neutrino masses in supersymmetry

F. Bazzocchi, D.G. Cerdeño, C. Muñoz y J.W.F. Valle
Physical Review D 81 (2010) 051701 [arXiv:0907.1262]

83. Tri-Bimaximal Lepton Mixing and Leptogenesis

D. Aristizábal Sierra, F. Bazzocchi, I. de Medeiros Varzielas, L. Merlo y S. Morisi
Nuclear Physics B 827 (2010) 34-58 [arXiv:0908.0907]

84. Interplay between collective effects and nonstandard neutrino interactions of supernova neutrinos

A. Esteban-Pretel, R. Tomás y J.W.F. Valle
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85. Minimal Supersymmetric Inverse Seesaw: Neutrino masses, lepton flavour violation and LHC pheno

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86. Higgs in Space!

C.B. Jackson, G. Servant, G. Shaughnessy, T.M.P. Tait y M. Taoso
Journal of Cosmology and Astroparticle Physics 04 (2010) 004 [arXiv:0912.0004]

87. S4 model for quarks and leptons with maximal atmospheric angle

S. Morisi y E. Peinado
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88. Spin Discrimination in Three-Body Decays

L. Edelhauser, W. Porod, R.K. Singh
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89. Effect of low mass dark matter particles on the Sun

M. Taoso, F. Iocco, G. Meynet, G. Bertone y P. Eggenberger
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90. Combined analysis of KamLAND & Borexino neutrino signals from Th and U decays in the Earth's interior

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91. Probing neutrino oscillations in supersymmetric models at the Large Hadron Collider

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92. Discrete dark matter

M. Hirsch, S. Morisi, E. Peinado y J.W.F. Valle
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93. A4-based neutrino masses with Majoron decaying dark matter

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94. Signatures of bosonic squark decays in non-minimally flavour-violating supersymmetry

M. Bruhnke, B. Herrmann y W. Porod
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95. The electroweak sector of the NMSSM at the one-loop level

F. Staub, W. Porod y B. Herrmann
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96. LHC and lepton flavour violation phenomenology of a left-right extension of the MSSM

J.N. Esteves, J.C. Romão, M. Hirsch, A. Vicente, W. Porod y F. Staub
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97. Fritzsche neutrino mass matrix from S3 symmetry

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98. Impact of squark generation mixing on the search for squarks decaying into fermions at LHC

A. Bartl, H. Eberl, B. Herrmann, K. Hidaka, W. Majerotto y W. Porod
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122. **Neutrino mass from higher than d=5 effective operators in supersymmetry, and its test at the LHC**
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