AHEP PUBLICATIONS (2014-2023)

(excluding proceedings and papers of experimental collaborations)

1. *Planck-scale effects on WIMP dark matter*
S.M. Boucenna, R.A. Lineros, J.W.F. Valle
Frontiers in Physics **1** (2014) 34 [arXiv:1204.2576]

2. *Dirac neutrinos from flavor symmetry*
A. Aranda, C. Bonilla, S. Morisi, E. Peinado, J.W.F. Valle
Physical Review D **89** (2014) 033001 [arXiv:1307.3553]

3. *Is charged lepton flavor violation a high energy phenomenon?*
F.F. Deppisch, N. Desai, J.W.F. Valle
Physical Review D **89** (2014) 051302 [arXiv:1308.6789]

4. *Wittens mechanism in the flipped SU(5) unification*
C. Arbeláez, H. Kolesova, M. Malinsky
Physical Review D **89** (2014) 055003 [arXiv:1309.6743]

5. *Theories relating baryon asymmetry and dark matter*
S.M. Boucenna, S. Morisi
Frontiers in Physics **1** (2014) 33 [arXiv:1310.1904]

6. *LHC-scale left-right symmetry and unification*
C. Arbeláez, M. Hirsch, M. Malinsky, J.C. Romão
Physical Review D **89** (2014) 035002 [arXiv:1311.3228]

7. *Heavy neutrino searches at the LHC with displaced vertices*
J.C. Helo, M. Hirsch, S.G. Kovalenko
Physical Review D **89** (2014) 073005 [arXiv:1312.2900]

8. *Falsifying High-Scale Leptogenesis at the LHC*
F.F. Deppisch, J. Harz, M. Hirsch
Physical Review Letters **112** (2014) 221601 [arXiv:1312.4447]

9. *Localization of gauge fields in a tachyonic de Sitter thick braneworld*
A. Herrera-Aguilar, A.D. Rojas, E. Santos
European Physical Journal C **74** (2014) 2770 [arXiv:1401.0999]

10. *The isotropic radio background revisited*
N. Fornengo, R.A. Lineros, M. Regis, M. Taoso
Journal of Cosmology and Astroparticle Physics **04** (2014) 008 [arXiv:1402.2218]

11. *Interpretation of AMS-02 electrons and positrons data*
M. Di Mauro, F. Donato, N. Fornengo, R.A. Lineros, A. Vittino
Journal of Cosmology and Astroparticle Physics **04** (2014) 006 [arXiv:1402.0321]

12. *Neutrino cosmology and Planck*
J. Lesgourgues, S. Pastor
New Journal of Physics **16** (2014) 065002 [arXiv:1404.1740]

13. *Inflation and majoron dark matter in the neutrino seesaw mechanism*
S.M. Boucenna, S. Morisi, Q. Shafi, J.W.F. Valle
Physical Review D **90** (2014) 055023 [arXiv:1404.3198]

14. *The low-scale approach to neutrino masses*
S.M. Boucenna, S. Morisi, J.W.F. Valle
Advances in High Energy Physics **2014** (2014) 831598 [arXiv:1404.3751]

15. *Radiative neutrino mass in 3-3-1 scheme*
S.M. Boucenna, S. Morisi, J.W.F. Valle
Physical Review D **90** (2014) 013005 [arXiv:1405.2332]

16. *Classification of lepton mixing matrices from residual symmetries*
R.M. Fonseca, W. Grimus
Journal of High Energy Physics **09** (2014) 033 [arXiv:1405.3678]

17. *Leptogenesis with a dynamical seesaw scale*
D. Aristizábal Sierra, M.A. Tórtola, J.W.F. Valle, A. Vicente
Journal of Cosmology and Astroparticle Physics **07** (2014) 052 [arXiv:1405.4706]

18. *Neutrino oscillations refitted*
D.V. Forero, M.A. Tórtola, J.W.F. Valle
Physical Review D **90** (2014) 093006 [arXiv:1405.7540]

19. *Connecting neutrino physics with dark matter*
M. Lattanzi, R.A. Lineros, M. Taoso
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20. *Inert scalar dark matter in an extra dimension inspired model*
R.A. Lineros, F.A. Pereira dos Santos
Journal of Cosmology and Astroparticle Physics **10** (2014) 059 [arXiv:1407.5999]

21. *Analysis of the quark sector in the 2HDM with a four-zero Yukawa texture using the most recent data on the CKM matrix*
O. Félix-Beltrán, F. González-Canales, J. Hernández-Sánchez, S. Moretti, R. Noriega-Papaquic, A. Rosado
Physics Letters B **742** (2015) 347-352 [arXiv:1311.5210]

22. *Q_6 as the Flavour Symmetry in a Non-minimal SUSY SU(5) Model*
J.C. Gómez-Izquierdo, F. González-Canales, M. Mondragón
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23. *The Cabibbo angle as a universal seed for quark and lepton mixings*
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Physics Letters B **748** (2015) 1-4 [arXiv:1410.3658]

24. *Small neutrino masses and gauge coupling unification*
S.M. Boucenna, R.M. Fonseca, F. González-Canales, J.W.F. Valle
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C. Bonilla, S. Morisi, E. Peinado, J.W.F. Valle
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D. Aristizábal Sierra, A. Degee, L. Doramé, M. Hirsch
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27. *Probing Non-Standard Interactions at Daya* Bay
S.K. Agarwalla, P. Bagchi, D.V. Forero, M.A. Tórtola
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28. *Neutrino mass and invisible Higgs decays at the LHC*
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30. *Predicting charged lepton flavor violation from 3-3-1 gauge symmetry*
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31. *Falsifying high-scale baryogenesis with neutrinoless double beta decay and lepton flavor violation*
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32. *Shedding light on the $b \to s$ anomalies with a dark sector*
D. Aristizábal Sierra, F. Staub, A. Vicente
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33. *Are the B decay anomalies related to neutrino oscillations?*
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34. *Lepton Flavor Violation beyond the MSSM*
A. Vicente
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35. *On the description of non-unitary neutrino mixing*
F.J. Escrihuela, D.V. Forero, O.G. Miranda, M.A. Tórtola, J.W.F. Valle
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36. *On the chirality of the SM and the fermion content of GUTs*
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37. *Probing neutrino magnetic moments at the Spallation Neutron Source facility*
T.S. Kosmas, O.G. Miranda, D.K. Papoulias, M.A. Tórtola, J.W.F. Valle
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38. *SU(5)-inspired double beta decay*
R.M. Fonseca, M. Hirsch
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39. *Neutrino transition magnetic moments within the non-standard neutrino-nucleus interactions*
D.K. Papoulias, T.S. Kosmas
Physics Letters B **747** (2015) 454-459 [arXiv:1506.05406]

40. *Sensitivities to neutrino electromagnetic properties at the TEXONO experiment*
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41. *Non-thermal Production of Minimal Dark Matter via Right-handed Neutrino Decay*
M. Aoki, A. Toma, A. Vicente
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42. *Consistency of the triplet seesaw revisited*
C. Bonilla, R.M. Fonseca, J.W.F. Valle
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43. *LHC dijet constraints on double beta decay*
J.C. Helo, M. Hirsch
Physical Review D **92** (2015) 073017 [arXiv:1509.00423]

44. *Bounds on very low reheating scenarios after Planck*
P.F. de Salas, M. Lattanzi, G. Mangano, G. Miele, S. Pastor, O. Pisanti
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45. *IDMS: inert dark matter model with a complex singlet*
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46. *Vacuum stability with spontaneous violation of lepton number*
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47. *Warped flavor symmetry predictions for neutrino physics*
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B.C. Cañas, O.G. Miranda, A. Parada, M. Tórtola, J.W.F. Valle
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52. *Electroweak breaking and neutrino mass: "invisible" Higgs decays at the LHC (Type II seesaw)*
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53. *A constrained supersymmetric left-right model*
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Journal of High Energy Physics **03** (2016) 009 [arXiv:1512.00472]

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55. *LHC diphoton resonance from gauge symmetry*
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56. *Dynamical seesaw mechanism for Dirac neutrinos*
J.W.F. Valle, C.A. Vaquera-Araujo
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57. *Neutrino propagation in the galactic dark matter halo*
P.F. de Salas, R.A. Lineros, M. Tórtola
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58. *Neutrino oscillations and the seesaw origin of neutrino mass*
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59. *Long-range contributions to double beta decay revisited*
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Journal of High Energy Physics **06** (2016) 006 [arXiv:1602.03362]

60. *Precision tools and models to narrow in on the 750 GeV diphoton resonance*
F. Staub, P. Athron, L. Basso, M.D. Goodsell, D. Harries, M.E. Krauss, K. Nickel, T. Opferkuch, L. Ubaldi, A. Vicente, A. Voigt
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62. *Consistency of WIMP Dark Matter as radiative neutrino mass messenger*
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63. *String completion of an $SU(3)_c \otimes SU(3)_L \otimes U(1)_X$ electroweak model*
A. Addazi, J.W.F. Valle, C.A. Vaquera-Araujo
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64. *Non-abelian gauge extensions for B-decay anomalies*
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P. Chen, G.J. Ding, F. González-Canales, J.W.F. Valle
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67. *Lepton Flavor Violation in the singlet-triplet scotogenic model*
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73. *Scalar-mediated double beta decay and LHC*
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75. *Quasi-Dirac neutrinos at the LHC*
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77. *Phenomenology of an SU(2) × SU(2) × U(1) model with lepton-flavour non-universality*
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78. *Constraining flavor changing interactions from LHC Run-2 dilepton bounds with vector mediators*
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79. *The weak mixing angle from low energy neutrino measurements: A global update*
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80. *331 models and grand unification: From minimal SU(5) to minimal SU(6)*
F.F. Deppisch, C. Hati, S. Patra, U. Sarkar, J.W.F. Valle
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81. *QCD corrections and long-range mechanisms of neutrinoless double beta decay*
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R. Adhikari et al [includes S. Pastor, J.W.F. Valle]
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85. *Precise predictions for Dirac neutrino mixing*
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86. *Remarks on the Standard Model predictions for R(D) and R(D*)*
C.S. Kim, G. López-Castro, S.L. Tostado, A. Vicente
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87. *Neutrino oscillations from warped flavor symmetry: predictions for long baseline experiments T2K, NOvA and DUNE*
P. Pasquini, S. Centelles Chuliá, J.W.F. Valle
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88. *Unifying left-right symmetry and 331 electroweak theories*
M. Reig, J.W.F. Valle, C.A. Vaquera-Araujo
Physics Letters B **766** (2017) 35-40 [arXiv:1611.02066]

89. *Non-renormalizable operators for solar neutrino mass generation in Split SuSy with bilinear R-parity violation*
M.A. Díaz, B. Koch, N. Rojas
Nuclear Physics B **916** (2017) 402-413 [arXiv:1611.03468]

90. *Three-family left-right symmetry with low-scale seesaw mechanism*
M. Reig, J.W.F. Valle, C.A. Vaquera-Araujo
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91. *QCD-improved limits from neutrinoless double beta decay*
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92. *Perspectives for detecting lepton flavour violation in left-right symmetric models*
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93. *CMB anomalies and the effects of local features of the inflaton potential*
A. Gallego Cadavid, A. Enea Romano, S. Gariazzo
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94. *Gauge vectors and double beta decay*
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95. *Matter-parity as a residual gauge symmetry: Probing a theory of cosmological dark matter*
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M.A. Díaz, N. Rojas, S. Urrutia-Quiroga, J.W.F. Valle
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97. *Probing CP violation with non-unitary mixing in long-baseline neutrino oscillation experiments: DUNE as a case study*
F.J. Escrihuela, D.V. Forero, O.G. Miranda, M. Tórtola, J.W.F. Valle
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98. *Cold dark matter plus not-so-clumpy dark relics*
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99. *The running of featureful primordial power spectra*
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100. *Can we probe intrinsic CP and T violations and nonunitarity at long baseline accelerator experiments?*
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102. *Probing light sterile neutrino signatures at reactor and Spallation Neutron Source neutrino experiments*
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104. *Resolving the atmospheric octant by an improved measurement of the reactor angle*
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105. *Fermionic triplet dark matter in an SO(10)-inspired left right model*
C. Arbeláez, M. Hirsch, D. Restrepo
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106. *Towards gauge coupling unification in left-right symmetric $SU(3)_c \times SU(3_)_L \times SU(3)_R \times U(1)_X$ theories*
C. Hati, S. Patra, M. Reig, J.W.F. Valle, C.A. Vaquera-Araujo
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107. *Cosmological searches for a non-cold dark matter component*
S. Gariazzo, M. Escudero, R. Diamanti, O. Mena
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108. *DsixTools: the standard model effective field theory toolkit*
A. Celis, J. Fuentes-Martín, A. Vicente, J. Virto
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109. *Gauge-invariant implications of the LHCb measurements on Lepton-Flavour Non-Universality*
A. Celis, J. Fuentes-Martín, A. Vicente, J. Virto
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110. *Minima of multi-Higgs potentials with triplets of $\Delta(3n2)$ and $\Delta(6n2)$*
I. de Medeiros Varzielas, S.F. King, C. Luhn, T. Neder
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111. *Loop neutrino masses from d=7 operator*
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112. *Predictive Pati-Salam theory of fermion masses and mixing*
A.E. Cárcamo Hernández, S. Kovalenko, J.W.F. Valle, C.A. Vaquera-Araujo
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113. *From the trees to the forest: a review of radiative neutrino mass models*
S. Y. Cai, J. Herrero-García, M.A. Schmidt, A. Vicente, R.R. Volkas
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114. *Generalized bottom-tau unification, neutrino oscillations and dark matter: Predictions from a lepton quarticity flavor approach*
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