

AHEP PUBLICATIONS (2011-2020)

(excluding proceedings)

1. *Fritzsch neutrino mass matrix from S_3 symmetry*
D. Meloni, S. Morisi and E. Peinado
Journal of Physics G **38** (2011) 015003 [[arXiv:1005.3482](#)]
2. *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 and W. Porod
Physics Letters B **698** (2011) 380-388 [[arXiv:1007.5483](#)]
3. *Flavour structure of supersymmetric $SO(10)$ GUTs with extended matter sector*
M. Heinze and M. Malinsky
Physical Review D **83** (2011) 035018 [[arXiv:1008.4813](#)]
4. *CP-violating Supersymmetric Higgs at the Tevatron and LHC*
S.P. Das and M. Drees
Physical Review D **83** (2011) 035003 [[arXiv:1010.3701](#)]
5. *Supersymmetric type-III seesaw mechanism: Lepton flavor violating decays and dark matter*
J.N. Esteves, J.C. Romão, M. Hirsch, F. Staub and W. Porod
Physical Review D **83** (2011) 013003 [[arXiv:1010.6000](#)]
6. *Constraining the cosmic radiation density due to lepton number with Big Bang Nucleosynthesis*
G. Mangano, G. Miele, S. Pastor, O. Pisanti and S. Sarikas
Journal of Cosmology and Astroparticle Physics **03** (2011) 035 [[arXiv:1011.0916](#)]
7. *Neutrino phenomenology and stable dark matter with A_4*
D. Meloni, S. Morisi and E. Peinado
Physics Letters B **697** (2011) 339-342 [[arXiv:1011.1371](#)]
8. *Supersymmetric mass spectra and the seesaw scale*
M. Hirsch, L. Reichert and W. Porod
Journal of High Energy Physics **05** (2011) 086 [[arXiv:1101.2140](#)]
9. *Minimal Flipped $SO(10) \times U(1)$ Supersymmetric Higgs Model*
S. Bertolini, L. Di Luzio and M. Malinsky
Physical Review D **83** (2011) 035002 [[arXiv:1011.1821](#)]
10. *Phenomenology of Dark Matter from A_4 Flavor Symmetry*
S.M. Boucenna, M. Hirsch, S. Morisi, E. Peinado, M. Taoso and J.W.F. Valle
Journal of High Energy Physics **05** (2011) 037 [[arXiv:1101.2874](#)]
11. *Global neutrino data and recent reactor fluxes: status of three-flavour oscillation parameters*
T. Schwetz, M.A. Tórtola and J.W.F. Valle
New Journal of Physics **13** (2011) 063004 [[arXiv:1103.0734](#)]
12. *Global constraints on muon-neutrino non-standard interactions*
F.J. Escrivuela, O.G. Miranda, M.A. Tórtola and J.W.F. Valle
Physical Review D **83** (2011) 093002 [[arXiv:1103.1366](#)]
13. *Relating quarks and leptons without grand-unification*
S. Morisi, E. Peinado, Y. Shimizu and J.W.F. Valle
Physical Review D **84** (2011) 036003 [[arXiv:1104.1633](#)]
14. *Chern-Simons anomaly as polarization effect*
V.B. Semikoz and J.W.F. Valle
Journal of Cosmology and Astroparticle Physics **11** (2011) 048 [[arXiv:1104.3106](#)]

15. *Admixture of quasi-Dirac and Majorana neutrinos with tri-bimaximal mixing*
S. Morisi and E. Peinado
Physics Letters B **701** (2011) 451-457 [[arXiv:1104.4961](#)]
16. *Constraining nonstandard neutrino interactions with electrons*
D.V. Forero and M.M. Guzzo
Physical Review D **84** (2011) 013002
17. *Stability of dark matter from the $D_4 \times Z_2^f$ group*
D. Meloni, S. Morisi and E. Peinado
Physics Letters B **703** (2011) 281-287 [[arXiv:1104.0178](#)]
18. *Non-standard antineutrino interactions at Daya Bay*
R. Leitner, M. Malinsky, B. Roskovec and H. Zhang
Journal of High Energy Physics **12** (2011) 001 [[arXiv:1105.5580](#)]
19. *Direct and indirect singlet scalar dark matter detection in the lepton-specific two-Higgs-doublet model*
S.M. Boucenna and S. Profumo
Physical Review D **84** (2011) 055011 [[arXiv:1106.3368](#)]
20. *Model for T2K indication with maximal θ_{23} and trimaximal θ_{12}*
S. Morisi, K.M. Patel and E. Peinado
Physical Review D **84** (2011) 053002 [[arXiv:1107.0696](#)]
21. *Soft masses in SUSY $SO(10)$ GUTs with low intermediate scales*
V. de Romeri, M. Hirsch and M. Malinsky
Physical Review D **84** (2011) 053012 [[arXiv:1107.3412](#)]
22. *Lepton flavor violation and non-unitary lepton mixing in low-scale type-I seesaw*
D.V. Forero, S. Morisi, M.A. Tórtola and J.W.F. Valle
Journal of High Energy Physics **09** (2011) 142 [[arXiv:1107.6009](#)]
23. *Possibility of a Dark Matter Interpretation for the Excess in Isotropic Radio Emission Reported by ARCADE*
N. Fornengo, R.A. Lineros, M. Regis and M. Taoso
Physical Review Letters **107** (2011) 271302 [[arXiv:1108.0569](#)]
24. *Where we are on θ_{13} : addendum to "Global neutrino data and recent reactor fluxes: status of three-flavour oscillation parameter"*
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New Journal of Physics **13** (2011) 109401 [[arXiv:1108.1376](#)]
25. *Symmetrical Parametrizations of the Lepton Mixing Matrix*
W. Rodejohann and J.W.F. Valle
Physical Review D **84** (2011) 073011 [[arXiv:1108.3484](#)]
26. *Neutrino mass from higher than $d=5$ effective operators in supersymmetry, and its test at the LHC*
M.B. Krauss, T. Ota, W. Porod and W. Winter
Physical Review D **84** (2011) 115023 [[arXiv:1109.4636](#)]
27. *Gravitino dark matter and neutrino masses with bilinear R -parity violation*
D. Restrepo, M. Taoso, J.W.F. Valle and O. Zapata
Physical Review D **85** (2012) 023523 [[arXiv:1109.0512](#)]
28. *Dark matter and LHC phenomenology in a left-right supersymmetric model*
J.N. Esteves, M. Hirsch, W. Porod, J.C. Romão, F. Staub and A. Vicente
Journal of High Energy Physics **01** (2012) 095 [[arXiv:1109.6478](#)]

29. *Hefty MSSM-like light Higgs in extended gauge models*
M. Hirsch, M. Malinsky, L. Reichert, W. Porod and F. Staub
Journal of High Energy Physics **02** (2012) 084 [[arXiv:1110.3037](#)]
30. *Updated BBN bounds on the cosmological lepton asymmetry for non-zero θ_{13}*
G. Mangano, G. Miele, S. Pastor, O. Pisanti and S. Sarikas
Physics Letters B **708** (2012) 1-5 [[arXiv:1110.4335](#)]
31. *Constraining neutrinoless double beta decay*
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Nuclear Physics B **861** (2012) 259-270 [[arXiv:1111.5614](#)]
32. *Heavy Sterile Neutrinos in Tau Decays and the MiniBooNE Anomaly*
C. Dib, J.C. Helo, M. Hirsch, S. Kovalenko and I. Schmidt
Physical Review D **85** (2012) 011301 [[arXiv:1110.5400](#)]
33. *Low-energy neutrino-electron scattering as a Standard Model probe: the potential of LENA as case study*
E.A. Garcés, O.G. Miranda, M.A. Tórtola and J.W.F. Valle
Physical Review D **85** (2012) 073006 [[arXiv:1112.3633](#)]
34. *Supersymmetric mass spectra and the seesaw type-I scale*
C. Arbeláez, M. Hirsch and L. Reichert
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35. *Enhancing $li \rightarrow 3lj$ with the Z^0 -penguin*
M. Hirsch, F. Staub and A. Vicente
Physical Review D **85** (2012) 113013 [[arXiv:1202.1825](#)]
36. *New neutrino mass sum rule from the inverse seesaw mechanism*
L. Doramé, S. Morisi, E. Peinado, A.D. Rojas and J.W.F. Valle
Physical Review D **86** (2012) 056001 [[arXiv:1203.0155](#)]
37. *Flavour in heavy neutrino searches at the LHC*
J.A. Aguilar-Saavedra, F. Deppisch, O. Kittel and J.W.F. Valle
Physical Review D **85** (2012) 091301 [[arXiv:1203.5998](#)]
38. *Cosmological lepton asymmetry with a nonzero mixing angle θ_{13}*
E. Castorina, U. França, M. Lattanzi, J. Lesgourgues, G. Mangano, A. Melchiorri and S. Pastor
Physical Review D **86** (2012) 023517 [[arXiv:1204.2510](#)]
39. *Predictive discrete dark matter model and neutrino oscillations*
S.M. Boucenna, S. Morisi, E. Peinado, Y. Shimizu and J.W.F. Valle
Physical Review D **86** (2012) 073008 [[arXiv:1204.4733](#)]
40. *Systematic study of the $d = 5$ Weinberg operator at one-loop order*
F. Bonnet, M. Hirsch, T. Ota and W. Winter
Journal of High Energy Physics **07** (2012) 153 [[arXiv:1204.5862](#)]
41. *Lepton asymmetries and primordial hypermagnetic helicity evolution*
V.B. Semikoz, D.D. Sokoloff, and J.W.F. Valle
Journal of Cosmology and Astroparticle Physics **06** (2012) 008 [[arXiv:1205.3607](#)]
42. *Global status of neutrino oscillation parameters after Neutrino-2012*
D.V. Forero, M.A. Tórtola, and J.W.F. Valle
Physical Review D **86** (2012) 073012 [[arXiv:1205.4018](#)]

43. *Heavy neutrinos and lepton flavor violation in left-right symmetric models at the LHC*
S.P. Das, F.F. Deppisch, O. Kittel and J.W.F. Valle
Physical Review D **86** (2012) 055006 [[arXiv:1206.0256](#)]
44. *Bilarge neutrino mixing and the Cabibbo angle*
S.M. Boucenna, S. Morisi, M.A. Tórtola and J.W.F. Valle
Physical Review D **86** (2012) 051301 [[arXiv:1206.2555](#)]
45. *Quark mixing in the discrete dark matter model*
R. de Adelhart Toorop, F. Bazzocchi and S. Morisi
Nuclear Physics B **856** (2012) 670-681 [[arXiv:1104.5676](#)]
46. *Conservative upper limits on WIMP annihilation cross section from Fermi-LAT gamma-rays*
F. Calore, V. de Romeri and F. Donato
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47. *Radio data and synchrotron emission in consistent cosmic ray models*
T. Bringmann, F. Donato and R.A. Lineros
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48. *Running soft parameters in SUSY models with multiple $U(1)$ gauge factors*
R. Fonseca, M. Malinsky, W. Porod and F. Staub
Nuclear Physics B **854** (2012) 28-53 [[arXiv:1107.2670](#)]
49. *The reactor mixing angle and CP violation with two texture zeros in the light of T2K*
P.O. Ludl, S. Morisi and E. Peinado
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50. *Fermion masses and mixing with tri-bimaximal in $SO(10)$ with type-I seesaw*
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Journal of High Energy Physics **01** (2012) 016 [[arXiv:1109.3396](#)]
51. *Galactic synchrotron emission from WIMPs at radio frequencies*
N. Fornengo, R.A. Lineros, M. Regis and M. Taoso
Journal of Cosmology and Astroparticle Physics **01** (2012) 005 [[arXiv:1110.4337](#)]
52. *Cosmological Radio Emission induced by WIMP Dark Matter*
N. Fornengo, R.A. Lineros, M. Regis and M. Taoso
Journal of Cosmology and Astroparticle Physics **03** (2012) 033 [[arXiv:1112.4517](#)]
53. *Main sequence stars with asymmetric dark matter*
F. Iocco, M. Taoso, F. Leclercq and G. Meynet
Physical Review Letters **108** (2012) 061301 [[arXiv:1201.5387](#)]
54. *Split neutrinos, two Majorana and one Dirac, and implications for leptogenesis, dark matter, and inflation*
A. Mazumdar and S. Morisi
Physical Review D **86** (2012) 045031 [[arXiv:1201.6189](#)]
55. *Seesaw Scale in the Minimal Renormalizable $SO(10)$ Grand Unification*
S. Bertolini, L. Di Luzio and M. Malinsky
Physical Review D **85** (2012) 095014 [[arXiv:1202.0807](#)]
56. *Predicting leptonic CP violation in the light of the Daya Bay result on θ_{13}*
D. Meloni, S. Morisi and E. Peinado
European Physical Journal C **72** (2012) 2160 [[arXiv:1203.2535](#)]
57. *Linear collider test of a neutrinoless double beta decay mechanism in left-right symmetric theories*
J. Barry, L. Doramé and W. Rodejohann
European Physical Journal C **72** (2012) 2023 [[arXiv:1203.3365](#)]

58. *Probing neutralino properties in minimal supergravity with bilinear R-parity violation*
F. de Campos, O.J.P. Éboli, M.B. Magro, W. Porod, D. Restrepo, S.P. Das, M. Hirsch and J.W.F. Valle
Physical Review D **86** (2012) 075001 [[arXiv:1206.3605](#)]
59. *Bilinear R-parity violation with flavor symmetry*
F. Bazzocchi, S. Morisi, E. Peinado, J.W.F. Valle and A. Vicente
Journal of High Energy Physics **01** (2013) 033 [[arXiv:1202.1529](#)]
60. *Accidental stability of dark matter*
L. Lavoura, S. Morisi, and J.W.F. Valle
Journal of High Energy Physics **02** (2013) 118 [[arXiv:1205.3442](#)]
61. *Proposal for generalised Supersymmetry Les Houches Accord for see-saw models and PDG numbering scheme*
L. Basso, A. Belyaev, D. Chowdhury, M. Hirsch, S. Khalil, S. Moretti, B. O'Leary, W. Porod & F. Staub
Computer Physics Communications **184** (2013) 698-719 [[arXiv:1206.4563](#)]
62. *Neutrino masses and mixing: a flavour symmetry roadmap*
S. Morisi and J.W.F. Valle
Fortschritte der Physik - Progress of Physics **61** (2013) 466-492 [[arXiv:1206.6678](#)]
63. *Status of three-neutrino oscillation parameters*
M.A. Tórtola
Fortschritte der Physik - Progress of Physics **61** (2013) 427-440
64. *Supersymmetric type-III seesaw: lepton flavour violation and LHC phenomenology*
M. Hirsch, W. Porod, F. Staub and C. Wei
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65. *Large neutrino mixing and Abelian flavor symmetry*
G.-J. Ding, S. Morisi and J.W.F. Valle
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66. *Systematic decomposition of the neutrinoless double beta decay operator*
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67. *Fun with the Abelian Higgs model*
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68. *Supersymmetric SO(10) GUTs with sliding scales*
C. Arbeláez, R.M. Fonseca, M. Hirsch and J.C. Romão
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69. *Quark-Lepton Mass Relation in a Realistic A_4 Extension of the Standard Model*
S.F. King, S. Morisi, E. Peinado and J.W.F. Valle
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70. *Neutrinoless double beta decay and lepton number violation at the LHC*
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71. *Probing interactions within the dark matter sector via extra radiation contributions*
U. França, R.A. Lineros, J. Palacio and S. Pastor
Physical Review D **87** (2013) 123521 [[arXiv:1303.1776](#)]

72. *Quark-lepton mass relation and CKM mixing in an A_4 extension of the minimal supersymmetric standard model*
S. Morisi, M. Nebot, K.M. Patel, E. Peinado and J.W.F. Valle
Physical Review D **88** (2013) 036001 [[arXiv:1303.4394](#)]
73. *Updated CMB, X- and gamma-ray constraints on majoron dark matter*
M. Lattanzi, S. Riemer-Sorensen, M.A. Tórtola and J.W.F. Valle
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74. *Invisible decays of ultra-high energy neutrinos*
L. Doramé, O.G. Miranda and J.W.F. Valle
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75. *The minimal adjoint-SU(5) Z4 GUT model*
Emmanuel-Costa, C. Simoes and M.A. Tórtola
Journal of High Energy Physics **10** (2013) 054 [[arXiv:1303.5699](#)]
76. *Reliability of Monte Carlo event generators for gamma ray dark matter searches*
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Journal of High Energy Physics **09** (2013) 077 [[arXiv:1305.2124](#)]
77. *Neutrino mixing with revamped A_4*
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78. *Short-range mechanisms of neutrinoless double beta decay at the LHC*
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79. *WIMP dark matter as radiative neutrino mass messenger*
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80. *Planck-scale effects on WIMP dark matter*
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81. *Dirac neutrinos from flavor symmetry*
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82. *Is charged lepton flavor violation a high energy phenomenon?*
F.F. Deppisch, N. Desai and J.W.F. Valle
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83. *Wittens mechanism in the flipped SU(5) unification*
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84. *Theories relating baryon asymmetry and dark matter*
S.M. Boucenna and S. Morisi
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85. *LHC-scale left-right symmetry and unification*
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86. *Heavy neutrino searches at the LHC with displaced vertices*
J.C. Helo, M. Hirsch and S.G. Kovalenko
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87. *Falsifying High-Scale Leptogenesis at the LHC*
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88. *Localization of gauge fields in a tachyonic de Sitter thick braneworld*
A. Herrera-Aguilar, A.D. Rojas and E. Santos
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89. *The isotropic radio background revisited*
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90. *Interpretation of AMS-02 electrons and positrons data*
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91. *Neutrino cosmology and Planck*
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92. *Inflation and majoron dark matter in the neutrino seesaw mechanism*
S.M. Boucenna, S. Morigi, Q. Shafi and J.W.F. Valle
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93. *The low-scale approach to neutrino masses*
S.M. Boucenna, S. Morigi and J.W.F. Valle
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94. *Radiative neutrino mass in 3-3-1 scheme*
S.M. Boucenna, S. Morigi and J.W.F. Valle
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95. *Classification of lepton mixing matrices from residual symmetries*
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96. *Leptogenesis with a dynamical seesaw scale*
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97. *Neutrino oscillations refitted*
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98. *Connecting neutrino physics with dark matter*
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99. *Inert scalar dark matter in an extra dimension inspired model*
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100. *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 and A. Rosado
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101. *Q_6 as the Flavour Symmetry in a Non-minimal SUSY $SU(5)$ Model*
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102. *The Cabibbo angle as a universal seed for quark and lepton mixings*
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103. *Small neutrino masses and gauge coupling unification*
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104. *Relating quarks and leptons with the T_7 flavour group*
C. Bonilla, S. Morisi, E. Peinado and J.W.F. Valle
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105. *Systematic classification of two-loop realizations of the Weinberg operator*
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Journal of High Energy Physics **03** (2015) 040 [[arXiv:1411.7038](#)]
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108. *Double beta decay and neutrino mass models*
J.C. Helo, M. Hirsch, T. Ota and F.A. Pereira dos Santos
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109. *Predicting charged lepton flavor violation from 3-3-1 gauge symmetry*
S.M. Boucenna, J.W.F. Valle and A. Vicente
Physical Review D **92** (2015) 053001 [[arXiv:1502.07546](#)]
110. *Falsifying high-scale baryogenesis with neutrinoless double beta decay and lepton flavor violation*
F.F. Deppisch, J. Harz, M. Hirsch, W.C. Huang and H. Päs
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111. *Shedding light on the $b \rightarrow s$ anomalies with a dark sector*
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112. *Are the B decay anomalies related to neutrino oscillations?*
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114. *On the description of non-unitary neutrino mixing*
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115. *On the chirality of the SM and the fermion content of GUTs*
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116. *Probing neutrino magnetic moments at the Spallation Neutron Source facility*
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117. *SU(5)-inspired double beta decay*
R.M. Fonseca and M. Hirsch
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