

Refereed Journal Articles

1. H. Hassanabadi, M. de Montigny and M. Hosseinpour, Interaction of a magnetic quadrupole moment with electric field in a cosmic string background for non-relativistic particle, *Annals of Physics*
2. S. Zare, H. Hassanabadi and M. de Montigny, Relativistic free fermions in an elastic medium with screw dislocations, *European Physical Journal Plus*
3. H. Hassanabadi, E. Maghsoodi, Won Sang Chung and M. de Montigny, "Thermodynamics of the Schwarzschild and Reissner-Nordström black holes under the Snyder-de Sitter model", *European Physical Journal C* **79** (2019) 936(6pp)
4. R.R. Cuzinatto, M. de Montigny and P.J. Pompeia, "Non-commutativity and non-inertial effects on the Dirac oscillator in a cosmic string space-time", *General Relativity and Gravitation* **51** (2019) 107(27pp)
5. M. de Montigny and E.S. Santos, "On the Duffin-Kemmer-Petiau equation in arbitrary dimensions", *Journal of Mathematical Physics* **60** (2019) 082302(16pp)
6. MoEDAL Collaboration, "Magnetic Monopole Search with the Full MoEDAL Trapping Detector in 13 TeV pp Collisions Interpreted in Photon-Fusion and Drell-Yan Production", *Physical Review Letters* **123** (2019) 021802(7pp)
7. M. Hosseinpour, H. Hassanabadi, M. de Montigny, "The Dirac oscillator in a spinning cosmic string spacetime", *European Physical Journal C* **79** (2019) 311(7pp)
8. L.M. Abreu, M. de Montigny, E.S. Santos and D.F.C.A. Silva, "Galilean covariant effective theory for bound states of heavy mesons", *International Journal of Modern Physics A* **33** (2018) 1850180(19pp)
9. H. Belich, E. Passos, M. de Montigny and E.S. Santos, "Lorentz-violating extension of the spin-one Duffin-Kemmer-Petiau equation", *International Journal of Modern Physics A* **33** (2018) 1850165(22pp)
10. H. Hassanabadi, S. Zare and M. de Montigny, "Relativistic spin-zero bosons in a Som-Raychaudhuri space-time", *General Relativity and Gravitation* **50** (2018) 104(25pp)
11. M. Hosseinpour, H. Hassanabadi and M. de Montigny, "Klein-Gordon field in spinning cosmic-string space-time with the Cornell potential", *International Journal of Geometric Methods in Modern Physics* **15** (2018) 1850165 (21pp)
12. J. Ramos, M. de Montigny, F.C. Khanna, "Weyl gravitoelectromagnetism", *General Relativity and Gravitation* **50** (2018) 83(13pp)
13. M. de Montigny, S. Zare and H. Hassanabadi, "Fermi field and Dirac oscillator in a Som-Raychaudhuri space-time", *General Relativity and Gravitation* **50** (2018) 47(24pp)
14. MoEDAL Collaboration, Search for magnetic monopoles with the MoEDAL forward trapping detector in 2.11fb^{-1} of 13TeV proton-proton collisions at the LHC, *Physics Letters B* **782** (2018) 510–516

15. H. Hassanabadi, M. Hosseinpour and M. de Montigny, "Duffin-Kemmer-Petiau equation in curved space-time with scalar linear interaction", *European Physics Journal Plus* **132** (2017) 541 (12pp)
16. M. Hedayatipoor, J. Finlay, S. Massoudi, C. Nokes and M. de Montigny, "Quasi-elastic neutrino reactions on carbon and lead nuclei", *Journal of Physics G: Nuclear and Particle Physics* **45** (2018) 025201(18pp).
17. A.A. Othman, M. de Montigny and F. Marsiglio, "The Coulomb potential in quantum mechanics revisited", *American Journal of Physics* **85** (2017) 346-351.
18. S. Zare, M. de Montigny and H. Hassanabadi, "Investigation of the non-relativistic Fermi-Gas model by considering the position-dependent mass", *Journal of the Korean Physical Society*, **70** (2017) 122-128.
19. B. Acharya et al (MoEDAL Collaboration, 70 authors), "Search for magnetic monopoles with the MoEDAL prototype trapping detector in 13 TeV proton-proton collisions at the LHC", *Physical Review Letters*, 118 (2017) 061801(6pp).
20. M. de Montigny, M. Hosseinpour and H. Hassanabadi, "The spin-zero Duffin-Kemmer-Petiau equation in a cosmic-string space-time with the Cornell interaction", *International Journal of Modern Physics A* **31** (2016) 1650191(19pp).
21. B. Acharya et al (MoEDAL Collaboration, 69 authors), "Search for magnetic monopoles with the MoEDAL prototype trapping detector in 8 TeV proton-proton collisions at the LHC", *Journal of High Energy Physics (JHEP)* (2016) 067(25pp).
22. G.R. de Melo, M. de Montigny, J. Pinfold and J.A. Tuszynski, "Symmetries and soliton solutions of the Galilean complex Sine-Gordon equation", *Physics Letters A* **380** (2016) 1223-1230.
23. A. Othman, M. de Montigny and F. Marsiglio, "On the number of bound states in some three-parameter s-wave central potentials", *European Journal of Physics* **36** (2015) 025015(18pp).
24. R. Rivelino, E.S. Santos and M. de Montigny, "Oscillations in a two-dimensional gas of massless Dirac fermions", *International Journal of Theoretical Physics* **54** (2015) 85-91.
25. B. Acharya et al (total 59 authors), "The physics programme of the MoEDAL experiment at the LHC", *International Journal of Modern Physics A* **29** (2014) 1430050(91pp).
26. R.R. Cuzinatto, P.J. Pompeia, M. de Montigny, F.C. Khanna, J.M. Hoff da Silva, "Classic tests of General Relativity described by brane-based spherically symmetric solutions", *European Physical Journal C* **74** (2014) 3017(10pp).
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32. E.S. Santos, R. Rivellino, M. de Montigny and G.R. de Melo, "A spin Hamiltonian for non-relativistic electrons and their interactions with an external field" *Journal of Physics A: Mathematical and Theoretical* **43** (2010) 335304(10pp).
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42. M. de Montigny and G. Rousseaux, "On some applications of Galilean electrodynamics of moving bodies", *American Journal of Physics* **75** (2007), 984-992.
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