

Bibliography

1. M. Pavšič, “Beyond the Relativistic Point Particle: A Reciprocally Invariant System and its Generalisation,” *Phys. Lett. B* **680**, 526 (2009) [arXiv:0907.2773 [hep-th]].
2. M. Pavšič, “A Novel View on the Physical Origin of E8,” *J. Phys. A* **41**, 332001 (2008) [arXiv:0806.4365 [hep-th]].
3. M. Pavšič, “Towards a New Paradigm: Relativity in Configuration Space,” arXiv:0712.3660 [gr-qc].
4. M. Pavšič, “An Extra Structure of Spacetime: A Space of Points, Areas and Volumes,” *J. Phys. Conf. Ser.* **66**, 012022 (2007) [arXiv:gr-qc/0611050].
5. M. Pavšič, “On a Unified Theory of Generalized Branes Coupled to Gauge Fields, Including the Gravitational and Kalb-Ramond Fields,” *Found. Phys.* **37**, 1197 (2007) [arXiv:hep-th/0605126].
6. C. Castro and M. Pavšič, “The Extended Relativity Theory In Clifford Spaces: Reply To Waldyr Rodrigues Jr,” *Prog. Phys.* **3**, 27 (2006).
7. M. Pavšič, “Spin Gauge Theory of Gravity in Clifford Space,” *J. Phys. Conf. Ser.* **33**, 422 (2006) [arXiv:gr-qc/0511124].
8. M. Pavšič, “Spin gauge theory of gravity in Clifford space: A realization of *Int. J. Mod. Phys. A* **21**, 5905 (2006) [arXiv:gr-qc/0507053].
9. C. Castro and M. Pavšič, “The Extended Relativity Theory In Clifford Spaces,” *Prog. Phys.* **1**, 31 (2005).
10. M. Pavšič, “On an alternative approach to the relation between bosons and fermions: Employing Clifford space,” arXiv:hep-th/0502067.
11. M. Pavšič, “Clifford space as a generalization of spacetime: Prospects for QFT of point particles and strings,” *Found. Phys.* **35**, 1617 (2005) [arXiv:hep-th/0501222].
12. M. Pavšič, “Kaluza-Klein theory without extra dimensions: Curved Clifford space,” *Phys. Lett. B* **614**, 85 (2005) [arXiv:hep-th/0412255].
13. M. Pavšič, “Rigid particle and its spin revisited,” *Found. Phys.* **37**, 40 (2007) [arXiv:hep-th/0412324].
14. M. Pavšič, “Clifford space as a generalization of spacetime: Prospects for unification in physics,” arXiv:hep-th/0411053.
15. M. Pavšič, “General principles of brane kinematics and dynamics,” arXiv:hep-th/0311060.

16. M. Pavšič, “Clifford Space as the Arena for Physics,” *Found. Phys.* **33**, 1277 (2003) [arXiv:gr-qc/0211085].
17. M. Pavšič, “Clifford algebra, geometry and physics,” *NATO Sci. Ser. II* **95**, 165 (2003) [arXiv:gr-qc/0210060].
18. C. Castro and M. Pavšič, “Clifford algebra of spacetime and the conformal group,” *Int. J. Theor. Phys.* **42**, 1693 (2003) [arXiv:hep-th/0203194].
19. M. Pavšič, “How the geometric calculus resolves the ordering ambiguity of quantum theory in curved space,” *Class. Quant. Grav.* **20**, 2697 (2003) [arXiv:gr-qc/0111092].
20. C. Castro and M. Pavšič, “Higher Derivative Gravity and Torsion from the Geometry of C-spaces,” *Phys. Lett. B* **539**, 133 (2002) [arXiv:hep-th/0110079].
21. M. Pavšič, “The Landscape of Theoretical Physics: A Global View: From Point Particles to the Brane World and Beyond, in Search of a Unifying Principle,” arXiv:gr-qc/0610061.
22. M. Pavšič, “Clifford Algebra Based Polydimensional Relativity and Relativistic Dynamics,” *Found. Phys.* **31**, 1185 (2001) [arXiv:hep-th/0011216].
23. M. Pavšič and V. Tapia, “Resource letter on geometrical results for embeddings and branes,” arXiv:gr-qc/0010045.
24. M. Pavšič, “A brane world model with intersecting branes,” *Phys. Lett. A* **283**, 8 (2001) [arXiv:hep-th/0006184].
25. M. Pavšič, “Pseudo Euclidean-signature harmonic oscillator, quantum field theory and vanishing cosmological constant,” *Phys. Lett. A* **254**, 119 (1999) [arXiv:hep-th/9812123].
26. M. Pavšič, E. Recami and W. A. . Rodrigues, “Electron structure, Zitterbewegung, and the new non-linear Dirac-like equation,” *Hadronic J.* **18**, 98 (1995) [arXiv:quant-ph/9803036].
27. M. Pavšič, “The unconstrained Stueckelberg-like membrane’s action as a reduced Dirac-Nambu-Goto action,” *Phys. Lett. A* **242**, 187 (1998).
28. M. Pavšič, “Formulation of a relativistic theory without constraints,” *Found. Phys.* **28**, 1443 (1998).
29. M. Pavšič, “Parametrized field theory,” *Found. Phys.* **28**, 1453 (1998).
30. M. Pavšič, “Quantum gravity induced from unconstrained membranes,” *Found. Phys.* **28**, 1465 (1998).

31. M. Pavšič, "The Dirac-Nambu-Goto p-branes as particular solutions to a generalized, unconstrained theory," *Nuovo Cim. A* **110**, 369 (1997) [arXiv:hep-th/9704154].
32. M. Pavšič, "Space-time as an unconstrained membrane," *Grav. Cosmol.* **3**, 305 (1997)
33. M. Pavšič, "Fock-Schwinger proper time formalism for p-branes," *Nucl. Phys. Proc. Suppl.* **57**, 265 (1997) [arXiv:hep-th/9612151].
34. M. Pavšič, "The relativistic charged membrane and its total mass," *Helv. Phys. Acta* **69**, 353 (1996).
35. M. Pavšič, "The embedding model of induced gravity with bosonic sources," *Grav. Cosmol.* **2**, 1 (1996) [arXiv:gr-qc/9511020].
36. M. Pavšič, "On the resolution of time problem in quantum gravity induced from Found. Phys. **26**, 159 (1996) [arXiv:gr-qc/9506057].
37. M. Pavšič, "The Classical And Quantum Theory Of Relativistic P-Branes Without Nuovo Cim. A **108**, 221 (1995) [arXiv:gr-qc/9501036].
38. M. Pavšič, "Relativistic P-Branes Without Constraints And Their Relation To The Wiggly Extended Objects," *Found. Phys.* **25**, 819 (1995).
39. M. Pavšič, E. Recami and W. A. . Rodrigues, "Electron structure, zitterbewegung and a new nonlinear Dirac - like equation,"
40. A. O. Barut and M. Pavšič, "Radiation reaction and the electromagnetic energy-momentum of moving relativistic charged membranes," *Phys. Lett. B* **331**, 45 (1994).
41. M. Pavšič, "The Embedding model of induced gravity with bosonic sources," *Found. Phys.* **24**, 1495 (1994).
42. M. Pavšič, E. Recami, W. A. . Rodrigues, G. D. Maccarrone, F. Raciti and G. Salesi, "Spin and electron structure," *Phys. Lett. B* **318**, 481 (1993).
43. A. O. Barut and M. Pavšič, "Dirac's shell model of the electron and the general theory of moving relativistic charged membranes," *Phys. Lett. B* **306**, 49 (1993).
44. M. Pavšič, E. Recami, W. A. . Rodrigues, G. D. Maccarrone, F. Raciti and G. Salesi, "Spin and electron structure,"
45. M. Pavšič, "Point particle - like action for p-branes," *Class. Quant. Grav.* **9**, L13 (1992).

46. A. O. Barut and M. Pavšič, "A Covariant Canonical Decomposition Of The Bosonic And Spinning Extended Objects With Electric Charge," *Mod. Phys. Lett. A* **7**, 1381 (1992).
47. M. Pavšič, "Relativistic quantum mechanics and quantum field theory with invariant evolution parameter," *Nuovo Cim. A* **104**, 1337 (1991).
48. M. Pavšič, "On The Interpretation Of The Relativistic Quantum Mechanics With Invariant Evolution Parameter," *Found. Phys.* **21**, 1005 (1991).
49. M. Pavšič, "On The Consistent Derivation Of Rigid Particles From Strings," *Class. Quant. Grav.* **7**, L187 (1990).
50. M. Pavšič, "THE QUANTIZATION OF A POINT PARTICLE WITH EXTRINSIC CURVATURE LEADS TO THE DIRAC EQUATION," *Phys. Lett. B* **221**, 264 (1989).
51. A. O. Barut and M. Pavšič, "EQUIVALENCE OF THE SPINNING SUPERPARTICLE DESCRIPTIONS WITH GRASSMANN VARIABLES OR WITH C NUMBER SPINORS," *Phys. Lett. B* **216**, 297 (1989).
52. A. O. Barut and M. Pavšič, "THE SPINNING MINIMAL SURFACES WITHOUT THE GRASSMANN VARIABLES," *Lett. Math. Phys.* **16**, 333 (1988).
53. M. Pavšič, "CLASSICAL MOTION OF MEMBRANES, STRINGS AND POINT PARTICLES WITH EXTRINSIC CURVATURE," *Phys. Lett. B* **205**, 231 (1988).
54. M. Pavšič, "GENERALIZATION OF THE BDHP STRING ACTION TO MEMBRANES OF ANY DIMENSION IN CURVED SPACE-TIME," *Class. Quant. Grav.* **5**, 247 (1988).
55. N. Mankoc-Borstnik and M. Pavšič, "A SYSTEMATIC EXAMINATION OF FIVE-DIMENSIONAL KALUZA-KLEIN THEORY WITH SOURCES CONSISTING OF POINT PARTICLES OR STRINGS," *Nuovo Cim. A* **99**, 489 (1988).
56. A. O. Barut and M. Pavšič, "KALUZA-KLEIN APPROACH TO THE CLASSICAL MODEL OF THE DIRAC ELECTRON," *Class. Quant. Grav.* **5**, 707 (1988).
57. A. O. Barut and M. Pavšič, "QUANTIZATION OF THE CLASSICAL RELATIVISTIC ZITTERBEWEGUNG IN THE SCHRODINGER PICTURE," *Class. Quant. Grav.* **4**, L131 (1987).
58. A. O. Barut and M. Pavšič, "Classical Model Of The Dirac Electron In Curved Space," *Class. Quant. Grav.* **4**, L41 (1987).

59. M. Pavšič, "PHASE SPACE ACTION FOR MINIMAL SURFACES OF ANY DIMENSION IN CURVED SPACE-TIME," *Phys. Lett. B* **197**, 327 (1987).
60. M. Pavšič, "An alternative to matter localization in the 'brane world': An early proposal and its later improvements," *Phys. Lett. A* **116**, 1 (1986) [arXiv:gr-qc/0101075].
61. M. Pavšič, "Canonical Formalism And Quantization Of Worldline In A Curved Background *Nuovo Cim. A* **93**, 291 (1986).
62. M. Pavšič, "STRING MODEL FOR GENERAL RELATIVITY AND CANONICAL FORMALISM FOR MINIMAL SURFACES," *Nuovo Cim. A* **95**, 297 (1986).
63. M. Pavšič, "Classical theory of a space-time sheet," *Phys. Lett. A* **107**, 66 (1985).
64. M. Pavšič, "On The Quantization Of Gravity By Embedding Space-Time In A Higher Dimensional Space," *Class. Quant. Grav.* **2**, 869 (1985).
65. M. Pavšič, "On The Quantization Of The Worldline," *Nuovo Cim. A* **82**, 443 (1984).
66. G. D. Maccarrone, M. Pavšič and E. Recami, "Formal And Physical Properties Of The Generalized (Subluminal And Superluminal) Lorentz Transformations," *Nuovo Cim. B* **73**, 91 (1983).
67. M. Pavšič and E. Recami, "Charge Conjugation And Internal Space-Time Symmetries,"
68. M. Pavšič and E. Recami, "Charge Conjugation And Internal Space-Time Symmetries," *Lett. Nuovo Cim.* **34**, 357 (1982) [Erratum-*ibid.* **35**, 352 (1982)].
69. M. Pavšič, "Solution Of The Planck Mass Problem In Kaluza-Klein Theories," *J. Phys. G* **8**, L89 (1982).
70. M. Pavšič, "On The Wave Function In A Classical Gravitational Field," *Phys. Lett. A* **90**, 175 (1982).
71. M. Pavšič, "Unified Kinematics Of Bradyons And Tachyons In Six-Dimensional Space-Time," *J. Phys. A* **14**, 3217 (1981).
72. M. Pavšič, "Towards Understanding Quantum Mechanics, General Relativity And The *Lett. Nuovo Cim.* **30**, 111 (1981).
73. M. Pavšič, "Introducing the dilatational degree of freedom: Special relativity in *J. Phys. A* **13**, 1367 (1980).

74. M. Pavšič, “Unification Of Leptons And Quarks Within Conformal Relativity,” *Lett. Nuovo Cim.* **25**, 505 (1979).
75. P. Caldirola, M. Pavšič and E. Recami, “Explaining Dirac Like Large Numbers By A Hierarchy Of ‘Universes’: A
76. P. Caldirola, M. Pavšič and E. Recami, “Unified Theory Of Strong And Gravitational Interactions,” *Nuovo Cim. B* **48**, 205 (1978).
77. E. Recami and M. Pavšič, “Answer To ‘Information Flow, Causality, And The Classical Theory Of Tachyons’,” *Int. J. Theor. Phys.* **17**, 77 (1978).
78. P. Caldirola, M. Pavšič and E. Recami, “Classical Quark Confinement From General Relativity,” *Phys. Lett. A* **66**, 9 (1978).
79. M. Pavšič, “Conformal Relativity And The Kaluza-Klein Scheme,”
80. V. De Sabbata, M. Pavšič and E. Recami, “A New View About Black Holes,” *Lett. Nuovo Cim.* **19**, 441 (1977).
81. M. Pavšič and E. Recami, “A New Unified Approach To Bradyons And Tachyons By Conformal *Lett. Nuovo Cim.* **19**, 273 (1977).
82. M. Pavšič, “Unified Description Of Bradyons And Tachyons Based On The Dynamical $SO(4,2)$
83. P. Caldirola, M. Pavšič and E. Recami, “Explaining Dirac Large Numbers By A Hierarchy Of Universes: A Unified Field Theory Of Strong And Gravitational Interactions,” *Catania Univ - PP-545 (77,REC.JUN) 94p*
84. M. Pavšič and E. Recami, “Again About Causality For Tachyons In Macrophysics,” *Lett. Nuovo Cim.* **18**, 134 (1977) [Erratum-ibid. **19**, 72 (1977)].
85. M. Pavšič, “Unified Theory Of Gravitation And Electromagnetism Based On The Conformal Group $SO(4,2)$,” *Nuovo Cim. B* **41**, 397 (1977).
86. M. Pavšič, “Discrete Rest Masses Resulting From Relativistically Covariant Massless Field Equations In Five-Dimensions,” *Lett. Nuovo Cim.* **17**, 44 (1976).
87. M. Pavšič, E. Recami and G. Ziino, “Recovering Causality For Tachyons Even In Macrophysics,” *Lett. Nuovo Cim.* **17**, 257 (1976).
88. M. Pavšič and E. Recami, “How To Recover Causality For Tachyons Even In Macrophysics,” *Nuovo Cim. A* **36**, 171 (1976) [Erratum-ibid. *A* **46**, 298 (1978)].
89. M. Pavšič, “An Attempt To Resolve The Astrophysical Puzzles By Postulating Scale Degree Of Freedom,” *Int. J. Theor. Phys.* **14**, 299 (1975).

90. M. Pavšič, “External inversion, internal inversion, and reflection invariance,”
Int. J. Theor. Phys. **9**, 229 (1974) [arXiv:hep-ph/0105344].