

# Bibliography

- [1] <http://home.uchicago.edu/~bgunn/particles.html>,  
<http://www.sciforums.com/archive/33/2002/12/3/14248>.
- [2] Y. Nambu, *Quark model and the factorization of the Veneziano amplitude*, Proc. Int. Conf. on Symmetries and Quark Models (1970) proceedings of the International Conference, Wayne State University, 1969, Detroit, edited by R. Chand, Gordon and Breach, New York.
- [3] T. Goto, *Relativistic Quantum Mechanics of One-Dimensional Mechanical Continuum and Subsidiary Condition of Dual Resonance Model*, Prog. Theor. Phys. **46** (1971) 1560
- [4] L. Brink, P. Di Vecchia and P. S. Howe, *A locally supersymmetric and reparametrization invariant action for the spinning string*, Phys. Lett. **B65** (1976) 471–474
- [5] S. Deser and B. Zumino, *A complete action for the spinning string*, Phys. Lett. **B65** (1976) 369–373
- [6] A. M. Polyakov, *Quantum geometry of bosonic strings*, Phys. Lett. **B103** (1981) 207–210
- [7] A. M. Polyakov, *Quantum geometry of fermionic strings*, Phys. Lett. **B103** (1981) 211–213
- [8] F. Gliozzi, J. Scherk and D. I. Olive, *Supersymmetry, supergravity theories and the dual spinor model*, Nucl. Phys. **B122** (1977) 253–290
- [9] N. Berkovits, *Super-Poincaré covariant quantization of the superstring*, JHEP **04** (2000) 018, [hep-th/0001035](https://arxiv.org/abs/hep-th/0001035)
- [10] N. Berkovits, *Covariant quantization of the superstring*, Int. J. Mod. Phys. **A16** (2001) 801–811, [hep-th/0008145](https://arxiv.org/abs/hep-th/0008145)
- [11] P. A. Grassi, G. Policastro, M. Porrati and P. Van Nieuwenhuizen, *Covariant quantization of superstrings without pure spinor constraints*, [hep-th/0112162](https://arxiv.org/abs/hep-th/0112162)
- [12] C. G. Callan, E. J. Martinec, M. J. Perry and D. Friedan, *Strings in background fields*, Nucl. Phys. **B262** (1985) 593
- [13] D. Z. Freedman, P. van Nieuwenhuizen and S. Ferrara, *Progress towards a theory of supergravity*, Phys. Rev. **D13** (1976) 3214–3218
- [14] E. Bergshoeff, C. M. Hull and T. Ortín, *Duality in the type II superstring effective action*, Nucl. Phys. **B451** (1995) 547–578, [hep-th/9504081](https://arxiv.org/abs/hep-th/9504081)
- [15] J. H. Schwarz, *Covariant field equations of chiral  $\mathcal{N} = 2, D = 10$  supergravity*, Nucl. Phys. **B226** (1983) 269
- [16] P. Dirac, *Quantised Singularities in the Electromagnetic Field*, Proc. Roy. Soc. **A133** (1931) 60
- [17] C. Montonen and D. I. Olive, *Magnetic monopoles as gauge particles?*, Phys. Lett. **B72** (1977) 117
- [18] K. Kikkawa and M. Yamasaki, *Casimir effects in superstring theories*, Phys. Lett. **B149** (1984) 357
- [19] M. Dine, P. Y. Huet and N. Seiberg, *Large and small radius in string theory*, Nucl. Phys. **B322** (1989) 301
- [20] J. Dai, R. G. Leigh and J. Polchinski, *New connections between string theories*, Mod. Phys. Lett. **A4** (1989) 2073–2083
- [21] P. Ginsparg, *Comment on toroidal compactification of heterotic superstrings*, Phys. Rev. **D35** (1987) 648
- [22] J. Polchinski and E. Witten, *Evidence for Heterotic - Type I String Duality*, Nucl. Phys. **B460** (1996) 525–540, [hep-th/9510169](https://arxiv.org/abs/hep-th/9510169)

- [23] C. M. Hull and P. K. Townsend, *Unity of superstring dualities*, Nucl. Phys. **B438** (1995) 109–137, hep-th/9410167
- [24] E. Cremmer, B. Julia and J. Scherk, *Supergravity theory in 11 dimensions*, Phys. Lett. **B76** (1978) 409–412
- [25] M. Huq and M. A. Namazie, *Kaluza-Klein supergravity in ten-dimensions*, Class. Quant. Grav. **2** (1985) 293
- [26] P. Hořava and E. Witten, *Heterotic and type I string dynamics from eleven dimensions*, Nucl. Phys. **B460** (1996) 506–524, hep-th/9510209
- [27] P. Hořava and E. Witten, *Eleven-dimensional supergravity on a manifold with boundary*, Nucl. Phys. **B475** (1996) 94–114, hep-th/9603142
- [28] T. Banks, W. Fischler, S. H. Shenker and L. Susskind, *M theory as a matrix model: A conjecture*, Phys. Rev. **D55** (1997) 5112–5128, hep-th/9610043
- [29] J. Polchinski, *TASI lectures on D-branes*, hep-th/9611050
- [30] K. S. Stelle, *BPS branes in supergravity*, hep-th/9803116
- [31] M. J. Duff, R. R. Khuri and J. X. Lu, *String solitons*, Phys. Rept. **259** (1995) 213–326, hep-th/9412184
- [32] H. Lu, C. N. Pope, E. Sezgin and K. S. Stelle, *Stainless super p-branes*, Nucl. Phys. **B456** (1995) 669–698, hep-th/9508042
- [33] M. J. Duff and K. S. Stelle, *Multi-membrane solutions of  $D = 11$  supergravity*, Phys. Lett. **B253** (1991) 113–118
- [34] R. Güven, *Black p-brane solutions of  $D = 11$  supergravity theory*, Phys. Lett. **B276** (1992) 49–55
- [35] J. Polchinski, *Dirichlet-Branes and Ramond-Ramond Charges*, Phys. Rev. Lett. **75** (1995) 4724–4727, hep-th/9510017
- [36] R. G. Leigh, *Dirac-Born-Infeld action from Dirichlet sigma model*, Mod. Phys. Lett. **A4** (1989) 2767
- [37] E. Bergshoeff, E. Eyras, R. Halbersma, C. Hull, Y. Lozano and J. P. van der Schaar, *Spacetime-filling branes and strings with sixteen supercharges*, Nucl. Phys. **B564** (2000) 29–59, hep-th/9812224
- [38] E. B. Bogomolnyi, *The stability of classical solutions*, Sov. J. Nucl. Phys. **24** (1976) 499
- [39] M. K. Prasad and C. M. Sommerfield, *An exact classical solution for the 't Hooft monopole and the Julia-Zee dyon*, Phys. Rev. Lett. **35** (1975) 760–762
- [40] K. Behrndt, E. Bergshoeff and B. Janssen, *Intersecting D-branes in ten and six dimensions*, Phys. Rev. **D55** (1997) 3785–3792, hep-th/9604168
- [41] J. R. Ellis, M. Günaydin and M. Zagermann, *Options for gauge groups in five-dimensional supergravity*, JHEP **11** (2001) 024, hep-th/0108094
- [42] L. J. Romans, *Massive  $N=2a$  supergravity in ten-dimensions*, Phys. Lett. **B169** (1986) 374
- [43] P. K. Townsend, *Positive energy and the scalar potential in higher dimensional (super)gravity theories*, Phys. Lett. **B148** (1984) 55
- [44] R. Kallosh, A. D. Linde, S. Prokushkin and M. Shmakova, *Gauged supergravities, de Sitter space and cosmology*, Phys. Rev. **D65** (2002) 105016, hep-th/0110089
- [45] S. Tsujikawa, *Introductory review of cosmic inflation*, hep-ph/0304257
- [46] J. Maldacena, *The large  $N$  limit of superconformal field theories and supergravity*, Adv. Theor. Math. Phys. **2** (1998) 231–252, hep-th/9711200
- [47] H. J. Boonstra, K. Skenderis and P. K. Townsend, *The domain wall/QFT correspondence*, JHEP **01** (1999) 003, hep-th/9807137
- [48] K. Behrndt, E. Bergshoeff, R. Halbersma and J. P. van der Schaar, *On domain-wall/QFT dualities in various dimensions*, Class. Quant. Grav. **16** (1999) 3517–3552, hep-th/9907006
- [49] M. Günaydin, L. J. Romans and N. P. Warner, *Gauged  $N = 8$  supergravity in five-dimensions*, Phys. Lett. **B154** (1985) 268
- [50] M. Pernici, K. Pilch and P. van Nieuwenhuizen, *Gauged  $N = 8$ ,  $D = 5$  supergravity*, Nucl. Phys. **B259** (1985) 460

- [51] E. D'Hoker and D. Z. Freedman, *Supersymmetric gauge theories and the AdS/CFT correspondence*, hep-th/0201253
- [52] H. Lü, C. N. Pope and P. K. Townsend, *Domain walls from Anti-de Sitter spacetime*, Phys. Lett. **B391** (1997) 39–46, hep-th/9607164
- [53] K. Skenderis and P. K. Townsend, *Gravitational stability and renormalization-group flow*, Phys. Lett. **B468** (1999) 46–51, hep-th/9909070
- [54] D. Z. Freedman, S. S. Gubser, K. Pilch and N. P. Warner, *Renormalization group flows from holography supersymmetry and a c-theorem*, Adv. Theor. Math. Phys. **3** (1999) 363–417, hep-th/9904017
- [55] A. Ceresole, G. Dall'Agata, R. Kallosh and A. Van Proeyen, *Hypermultiplets, domain walls and supersymmetric attractors*, Phys. Rev. **D64** (2001) 104006, hep-th/0104056
- [56] N. Arkani-Hamed, S. Dimopoulos and G. R. Dvali, *The hierarchy problem and new dimensions at a millimeter*, Phys. Lett. **B429** (1998) 263–272, hep-ph/9803315
- [57] I. Antoniadis, N. Arkani-Hamed, S. Dimopoulos and G. R. Dvali, *New dimensions at a millimeter to a Fermi and superstrings at a TeV*, Phys. Lett. **B436** (1998) 257–263, hep-ph/9804398
- [58] V. A. Rubakov and M. E. Shaposhnikov, *Do we live inside a domain wall?*, Phys. Lett. **B125** (1983) 136–138
- [59] L. Randall and R. Sundrum, *A large mass hierarchy from a small extra dimension*, Phys. Rev. Lett. **83** (1999) 3370–3373, hep-ph/9905221
- [60] L. Randall and R. Sundrum, *An alternative to compactification*, Phys. Rev. Lett. **83** (1999) 4690–4693, hep-th/9906064
- [61] V. A. Rubakov, *Large and infinite extra dimensions: An introduction*, Phys. Usp. **44** (2001) 871–893, hep-ph/0104152
- [62] R. Dick, *Brane worlds*, Class. Quant. Grav. **18** (2001) R1–R24, hep-th/0105320
- [63] S. Förste, *Strings, branes and extra dimensions*, Fortsch. Phys. **50** (2002) 221–403, hep-th/0110055
- [64] E. Bergshoeff, R. Kallosh and A. Van Proeyen, *Supersymmetry in singular spaces*, JHEP **10** (2000) 033, hep-th/0007044
- [65] E. Bergshoeff, R. Kallosh and A. Van Proeyen, *Supersymmetry of RS bulk and brane*, Fortsch. Phys. **49** (2001) 625–632, hep-th/0012110
- [66] A. Lukas, B. A. Ovrut, K. S. Stelle and D. Waldram, *The universe as a domain wall*, Phys. Rev. **D59** (1999) 086001, hep-th/9803235
- [67] A. Lukas, B. A. Ovrut, K. S. Stelle and D. Waldram, *Heterotic M-theory in five dimensions*, Nucl. Phys. **B552** (1999) 246–290, hep-th/9806051
- [68] P. K. Townsend, K. Pilch and P. van Nieuwenhuizen, *Selfduality in odd dimensions*, Phys. Lett. **136B** (1984) 38
- [69] E. Cremmer, *Supergravities in 5 dimensions*, Invited paper at the Nuffield Gravity Workshop, Cambridge, Eng., Jun 22 - Jul 12, 1980
- [70] M. Günaydin, G. Sierra and P. K. Townsend, *The geometry of  $N = 2$  Maxwell-Einstein supergravity and Jordan algebras*, Nucl. Phys. **B242** (1984) 244
- [71] M. Günaydin, G. Sierra and P. K. Townsend, *Gauging the  $D = 5$  Maxwell-Einstein supergravity theories: more on Jordan algebras*, Nucl. Phys. **B253** (1985) 573
- [72] M. Günaydin, G. Sierra and P. K. Townsend, *More on  $D = 5$  Maxwell-Einstein supergravity: symmetric spaces and kinks*, Class. Quant. Grav. **3** (1986) 763
- [73] M. Günaydin and M. Zagermann, *The gauging of five-dimensional,  $N = 2$  Maxwell-Einstein supergravity theories coupled to tensor multiplets*, Nucl. Phys. **B572** (2000) 131–150, hep-th/9912027
- [74] M. Günaydin and M. Zagermann, *The vacua of  $5d$ ,  $N = 2$  gauged Yang-Mills/Einstein/tensor supergravity: Abelian case*, Phys. Rev. **D62** (2000) 044028, hep-th/0002228
- [75] M. Günaydin and M. Zagermann, *Gauging the full R-symmetry group in five-dimensional,  $N = 2$  Yang-Mills/Einstein/tensor supergravity*, Phys. Rev. **D63** (2001) 064023, hep-th/0004117

- [76] A. Ceresole and G. Dall'Agata, *General matter coupled  $N = 2$ ,  $D = 5$  gauged supergravity*, Nucl. Phys. **B585** (2000) 143–170, hep-th/0004111
- [77] R. Kallosh and A. D. Linde, *Supersymmetry and the brane world*, JHEP **02** (2000) 005, hep-th/0001071
- [78] K. Behrndt and M. Cvetič, *Anti-de Sitter vacua of gauged supergravities with 8 supercharges*, Phys. Rev. **D61** (2000) 101901, hep-th/0001159
- [79] A. Ceresole and G. Dall'Agata, *Brane-worlds in 5D supergravity*, Fortsch. Phys. **49** (2001) 449–454, hep-th/0101214
- [80] G. W. Gibbons and N. D. Lambert, *Domain walls and solitons in odd dimensions*, Phys. Lett. **B488** (2000) 90–96, hep-th/0003197
- [81] J. M. Maldacena and C. Nunez, *Supergravity description of field theories on curved manifolds and a no go theorem*, Int. J. Mod. Phys. **A16** (2001) 822–855, hep-th/0007018
- [82] D. V. Alekseevsky, V. Cortes, C. Devchand and A. Van Proeyen, *Flows on quaternionic-Kaehler and very special real manifolds*, hep-th/0109094
- [83] K. Behrndt and M. Cvetič, *Gauging of  $N = 2$  supergravity hypermultiplet and novel renormalization group flows*, Nucl. Phys. **B609** (2001) 183–192, hep-th/0101007
- [84] K. Behrndt and G. Dall'Agata, *Vacua of  $N = 2$  gauged supergravity derived from non-homogenous quaternionic spaces*, Nucl. Phys. **B627** (2002) 357–380, hep-th/0112136
- [85] L. Anguelova and C. I. Lazaroiu, *Domain walls of  $N = 2$  supergravity in five dimensions from hypermultiplet moduli spaces*, JHEP **09** (2002) 053, hep-th/0208154
- [86] E. Bergshoeff, S. Cucu, T. de Wit, J. Gheerardyn, R. Halbersma, S. Vandoren and A. V. Proeyen, *Superconformal  $N = 2$ ,  $D = 5$  matter with and without actions*, JHEP **10** (2002) 045, hep-th/0205230
- [87] C. Pope, *Kaluza-Klein theory*, Lecture notes, <http://faculty.physics.tamu.edu/pope/ihplec.ps>
- [88] M. J. Duff, B. E. W. Nilsson and C. N. Pope, *Kaluza-Klein supergravity*, Phys. Rept. **130** (1986) 1–142
- [89] A. Salam and J. Strathdee, *On Kaluza-Klein theory*, Annals Phys. **141** (1982) 316–352
- [90] H. Lee, ed., *An introduction to Kaluza-Klein theories. Proceedings, workshop, Chalk River, Canada, august 11-16, 1983*. Singapore, Singapore: World Scientific (1984) 315p
- [91] A. Einstein, *The Foundation of the General Theory of Relativity*, Annalen Phys. **49** (1916) 769–822
- [92] T. Kaluza, *On the problem of unity in physics*, Sitzungsber. Preuss. Akad. Wiss. Berlin (Math. Phys. ) **K1** (1921) 966–972
- [93] O. Klein, *Quantum theory and five-dimensional theory of relativity*, Z. Phys. **37** (1926) 895–906
- [94] J. Scherk and J. H. Schwarz, *Spontaneous breaking of supersymmetry through dimensional reduction*, Phys. Lett. **B82** (1979) 60
- [95] J. Scherk and J. H. Schwarz, *How to get masses from extra dimensions*, Nucl. Phys. **B153** (1979) 61–88
- [96] C. M. Hull, *Massive string theories from M-theory and F-theory*, JHEP **11** (1998) 027, hep-th/9811021
- [97] A. Dabholkar and C. Hull, *Duality twists, orbifolds, and fluxes*, hep-th/0210209
- [98] B. de Wit, H. Samtleben and M. Trigiante, *On Lagrangians and gaugings of maximal supergravities*, Nucl. Phys. **B655** (2003) 93–126, hep-th/0212239
- [99] N. Straumann, *On Pauli's invention of non-Abelian Kaluza-Klein theory in 1953*, gr-qc/0012054
- [100] C.-N. Yang and R. L. Mills, *Conservation of isotopic spin and isotopic gauge invariance*, Phys. Rev. **96** (1954) 191–195
- [101] J. Sauriau, *Relativité Multidimensionnelle non Stationnaire*, Les Théories Relativistes de La Gravitation (1962) 293–297, Paris, Centre National de la Recherche Scientifique
- [102] J. Rayski, *Unified field theory and modern physics*, Acta Phys. Polon. **27** (1965) 89–97
- [103] R. Kerner, *Generalization of the Kaluza-Klein theory for an arbitrary non-Abelian gauge group*, Ann. Inst. H. Poincaré **9** (1968) 143–152

- [104] A. Trautman, *Fiber bundles associated with space-time*, Rept. Math. Phys. **1** (1970) 29–62
- [105] Y. M. Cho, *Higher-dimensional unifications of gravitation and gauge theories*, J. Math. Phys. **16** (1975) 2029
- [106] Y. M. Cho and P. G. O. Freund, *Non-Abelian gauge fields in Nambu-Goldstone fields*, Phys. Rev. **D12** (1975) 1711
- [107] M. Cvetič, H. Lü and C. N. Pope, *Consistent Kaluza-Klein sphere reductions*, Phys. Rev. **D62** (2000) 064028, hep-th/0003286
- [108] E. Bergshoeff, T. de Wit, U. Gran, R. Linares and D. Roest, *(Non-)Abelian gauged supergravities in nine dimensions*, JHEP **10** (2002) 061, hep-th/0209205
- [109] E. Bergshoeff, B. Janssen and T. Ortín, *Solution-generating transformations and the string effective action*, Class. Quant. Grav. **13** (1996) 321–343, hep-th/9506156
- [110] H. Nicolai, P. K. Townsend and P. van Nieuwenhuizen, *Comments on Eleven-dimensional Supergravity*, Nuovo Cim. Lett. **30** (1981) 315
- [111] P. Meessen and T. Ortín, *An  $Sl(2, Z)$  multiplet of nine-dimensional type II supergravity theories*, Nucl. Phys. **B541** (1999) 195–245, hep-th/9806120
- [112] E. Bergshoeff, R. Kallosh, T. Ortín, D. Roest and A. Van Proeyen, *New formulations of  $D = 10$  supersymmetry and  $D8 - O8$  domain walls*, Class. Quant. Grav. **18** (2001) 3359–3382, hep-th/0103233
- [113] F. Giani and M. Pernici,  *$N=2$  Supergravity in Ten-Dimensions*, Phys. Rev. **D30** (1984) 325–333
- [114] P. S. Howe, N. D. Lambert and P. C. West, *A new massive type IIA supergravity from compactification*, Phys. Lett. **B416** (1998) 303–308, hep-th/9707139
- [115] I. V. Lavrinenko, H. Lu and C. N. Pope, *Fibre bundles and generalised dimensional reductions*, Class. Quant. Grav. **15** (1998) 2239–2256, hep-th/9710243
- [116] E. Bergshoeff, M. de Roo, M. B. Green, G. Papadopoulos and P. K. Townsend, *Duality of Type II 7-branes and 8-branes*, Nucl. Phys. **B470** (1996) 113–135, hep-th/9601150
- [117] E. Bergshoeff, U. Gran and D. Roest, *Type IIB seven-brane solutions from nine-dimensional domain walls*, Class. Quant. Grav. **19** (2002) 4207–4226, hep-th/0203202
- [118] O. DeWolfe, T. Hauer, A. Iqbal and B. Zwiebach, *Uncovering the symmetries on  $(p, q)$  7-branes: Beyond the Kodaira classification*, Adv. Theor. Math. Phys. **3** (1999) 1785–1833, hep-th/9812028
- [119] O. DeWolfe, T. Hauer, A. Iqbal and B. Zwiebach, *Uncovering infinite symmetries on  $(p, q)$  7-branes: Kac-Moody algebras and beyond*, Adv. Theor. Math. Phys. **3** (1999) 1835–1891, hep-th/9812209
- [120] J. Gheerardyn and P. Meessen, *Supersymmetry of massive  $D = 9$  supergravity*, Phys. Lett. **B525** (2002) 322–330, hep-th/0111130
- [121] K. Behrndt, E. Bergshoeff, D. Roest and P. Sundell, *Massive dualities in six dimensions*, Class. Quant. Grav. **19** (2002) 2171–2200, hep-th/0112071
- [122] J. Louis and A. Micu, *Type II theories compactified on Calabi-Yau threefolds in the presence of background fluxes*, Nucl. Phys. **B635** (2002) 395–431, hep-th/0202168
- [123] A. Salam and E. Sezgin, eds., *Supergravities in diverse dimensions. Vol. 1, 2*. Amsterdam, Netherlands: North-Holland (1989) 1499 p. Singapore, Singapore: World Scientific (1989) 1499 p
- [124] M. Kaku and P. K. Townsend, *Poincaré supergravity as broken superconformal gravity*, Phys. Lett. **B76** (1978) 54
- [125] P. S. Howe, *A superspace approach to extended conformal supergravity*, Phys. Lett. **B100** (1981) 389
- [126] B. de Wit, M. Roček and S. Vandoren, *Hypermultiplets, hyper-Kähler cones and quaternion-Kähler geometry*, JHEP **02** (2001) 039, hep-th/0101161
- [127] M. Kaku, P. K. Townsend and P. van Nieuwenhuizen, *Gauge theory of the conformal and superconformal group*, Phys. Lett. **B69** (1977) 304–308
- [128] M. Kaku, P. K. Townsend and P. van Nieuwenhuizen, *Properties of conformal supergravity*, Phys. Rev. **D17** (1978) 3179

- [129] S. W. MacDowell and F. Mansouri, *Unified geometric theory of gravity and supergravity*, Phys. Rev. Lett. **38** (1977) 739
- [130] S. Ferrara, M. Kaku, P. K. Townsend and P. van Nieuwenhuizen, *Gauging the graded conformal group with unitary internal symmetries*, Nucl. Phys. **B129** (1977) 125
- [131] E. Bergshoeff, S. Cucu, M. Derix, T. de Wit, R. Halbersma and A. Van Proeyen, *Weyl multiplets of  $\mathcal{N} = 2$  conformal supergravity in five dimensions*, JHEP **06** (2001) 051, hep-th/0104113
- [132] R. S. Halbersma, *Geometry of Strings and Branes*, Ph.D. thesis, Groningen University, 2002; available from <http://www.ub.rug.nl/eldoc/dis/science/r.s.halbersma/>
- [133] T. Fujita and K. Ohashi, *Superconformal tensor calculus in five dimensions*, Prog. Theor. Phys. **106** (2001) 221–247, hep-th/0104130
- [134] A. Van Proeyen, *Superconformal tensor calculus in  $\mathcal{N} = 1$  and  $\mathcal{N} = 2$  supergravity*, To be publ. in Proc. of Karpacz Winter School, Karpacz, Poland, Feb 14–26, 1983
- [135] E. A. Bergshoeff, *Conformal invariance in supergravity*, Ph.D. thesis RX-1008 (Leiden)
- [136] A. Van Proeyen,  *$\mathcal{N} = 2$  supergravity in  $D = 4, 5, 6$  and its matter couplings*, Lecture notes, <http://itf.fys.kuleuven.ac.be/toine/lectparis.ps>
- [137] A. Van Proeyen, *Tools for supersymmetry*, Annals of the University of Craiova, Physics AUC **9 (part I)** (1999) 1–48, hep-th/9910030
- [138] E. Sezgin and Y. Tani, *Superconformal sigma models in higher than two dimensions*, Nucl. Phys. **B443** (1995) 70–84, hep-th/9412163
- [139] B. de Wit, B. Kleijn and S. Vandoren, *Rigid  $\mathcal{N} = 2$  superconformal hypermultiplets*, hep-th/9808160, in *Supersymmetries and Quantum Symmetries*, proc. Int. Sem. Dubna (1997), eds. J. Wess and E.A. Ivanov, Lecture Notes in Physics, Vol. 524 (Springer, 1999), p. 37
- [140] J. Michelson and A. Strominger, *The geometry of (super)conformal quantum mechanics*, Commun. Math. Phys. **213** (2000) 1–17, hep-th/9907191
- [141] J. W. van Holten and A. Van Proeyen,  *$\mathcal{N} = 1$  supersymmetry algebras in  $D = 2, 3, 4$  mod. 8*, J. Phys. **A15** (1982) 3763
- [142] R. D’Auria, S. Ferrara, M. A. Lledo and V. S. Varadarajan, *Spinor algebras*, J. Geom. Phys. **40** (2001) 101–128, hep-th/0010124
- [143] E. Bergshoeff, M. de Roo and B. de Wit, *Conformal supergravity in ten dimensions*, Nucl. Phys. **B217** (1983) 489
- [144] W. Nahm, *Supersymmetries and their representations*, Nucl. Phys. **B135** (1978) 149
- [145] B. de Wit, J. W. van Holten and A. Van Proeyen, *Transformation rules of  $\mathcal{N} = 2$  supergravity multiplets*, Nucl. Phys. **B167** (1980) 186
- [146] E. Bergshoeff, M. de Roo and B. de Wit, *Extended conformal supergravity*, Nucl. Phys. **B182** (1981) 173
- [147] E. Bergshoeff, E. Sezgin and A. Van Proeyen, *Superconformal tensor calculus and matter couplings in six dimensions*, Nucl. Phys. **B264** (1986) 653
- [148] E. Bergshoeff, E. Sezgin and A. Van Proeyen, *(2, 0) tensor multiplets and conformal supergravity in  $D = 6$* , Class. Quant. Grav. **16** (1999) 3193–3206, hep-th/9904085
- [149] A. Van Proeyen, *Special geometries, from real to quaternionic*, hep-th/0110263, To be published in the proceedings of the ‘DFG workshop on special geometric structures in string theory’, Bonn, 8–11/9/2001
- [150] N. Seiberg and E. Witten, *Electric - magnetic duality, monopole condensation, and confinement in  $\mathcal{N} = 2$  supersymmetric Yang–Mills theory*, Nucl. Phys. **B426** (1994) 19–52, hep-th/9407087
- [151] N. Seiberg and E. Witten, *Monopoles, duality and chiral symmetry breaking in  $\mathcal{N} = 2$  supersymmetric QCD*, Nucl. Phys. **B431** (1994) 484–550, hep-th/9408099
- [152] B. de Wit, P. G. Lauwers, R. Philippe, S. Q. Su and A. Van Proeyen, *Gauge and matter fields coupled to  $\mathcal{N} = 2$  supergravity*, Phys. Lett. **B134** (1984) 37

- [153] B. de Wit and A. Van Proeyen, *Potentials and symmetries of general gauged  $\mathcal{N} = 2$  supergravity – Yang–Mills models*, Nucl. Phys. **B245** (1984) 89
- [154] G. Sierra and P. K. Townsend, *An introduction to  $\mathcal{N} = 2$  rigid supersymmetry*, in *Supersymmetry and Supergravity 1983*, ed. B. Milewski (World Scientific, Singapore, 1983)
- [155] J. Gates, S. James, *Superspace formulation of new nonlinear sigma models*, Nucl. Phys. **B238** (1984) 349
- [156] N. Seiberg, *Observations on the moduli space of superconformal field theories*, Nucl. Phys. **B303** (1988) 286
- [157] S. Cecotti, S. Ferrara and L. Girardello, *Geometry of type II superstrings and the moduli of superconformal field theories*, Int. J. Mod. Phys. **A4** (1989) 2475
- [158] S. Ferrara and A. Strominger,  *$\mathcal{N} = 2$  space-time supersymmetry and Calabi–Yau moduli space*, in *Strings '89*, eds. R. Arnowitt, R. Bryan, M.J. Duff, D.V. Nanopoulos and C.N. Pope (World Scientific, Singapore, 1989), p. 245
- [159] P. Candelas and X. de la Ossa, *Moduli space of Calabi–Yau manifolds*, Nucl. Phys. **B355** (1991) 455–481
- [160] P. Candelas, X. C. De la Ossa, P. S. Green and L. Parkes, *An exactly soluble superconformal theory from a mirror pair of Calabi–Yau manifolds*, Phys. Lett. **B258** (1991) 118–126
- [161] A. Strominger, *Special geometry*, Commun. Math. Phys. **133** (1990) 163–180
- [162] T. Kugo and K. Ohashi, *Gauge and non-gauge tensor multiplets in 5D conformal supergravity*, Prog. Theor. Phys. **108** (2003) 1143–1164, hep-th/0208082
- [163] A. Van Proeyen, *The scalars of  $\mathcal{N} = 2$ ,  $D = 5$  and attractor equations*, hep-th/0105158, in 'New developments in fundamental interaction theories', proceedings of 37th Karpacz Winter School, feb 2001; eds. J. Lukierski and J. Rembieliński, AIP proceedings 589, 2001, pp. 31–45
- [164] B. de Wit, B. Kleijn and S. Vandoren, *Superconformal hypermultiplets*, Nucl. Phys. **B568** (2000) 475–502, hep-th/9909228
- [165] M. Obata, *Affine connections on manifolds with almost complex, quaternionic or Hermitian structure*, Jap. J. Math. **26** (1956) 43–79
- [166] B. de Wit, J. W. van Holten and A. Van Proeyen, *Central charges and conformal supergravity*, Phys. Lett. **B95** (1980) 51
- [167] T. Kugo and K. Ohashi, *Off-shell  $D = 5$  supergravity coupled to matter–Yang–Mills system*, Prog. Theor. Phys. **105** (2001) 323–353, hep-ph/0010288
- [168] A. Swann, *Hyper-Kähler and quaternionic Kähler geometry*, Math. Ann. **289** (1991) 421–450
- [169] B. de Wit, P. G. Lauwers and A. Van Proeyen, *Lagrangians of  $\mathcal{N}=2$  Supergravity - Matter systems*, Nucl. Phys. **B255** (1985) 569
- [170] R. D'Auria, S. Ferrara and P. Frè, *Special and quaternionic isometries: General couplings in  $\mathcal{N} = 2$  supergravity and the scalar potential*, Nucl. Phys. **B359** (1991) 705–740
- [171] L. Andrianopoli, M. Bertolini, A. Ceresole, R. D'Auria, S. Ferrara, P. Fré and T. Magri,  *$\mathcal{N} = 2$  supergravity and  $\mathcal{N} = 2$  super Yang–Mills theory on general scalar manifolds: Symplectic covariance, gaugings and the momentum map*, J. Geom. Phys. **23** (1997) 111–189, hep-th/9605032
- [172] B. de Wit, M. Roček and S. Vandoren, *Gauging isometries on hyperkähler cones and quaternion-Kähler manifolds*, Phys. Lett. **B511** (2001) 302–310, hep-th/0104215
- [173] E. Bergshoeff, S. Cucu, T. de Wit, J. Gheerardyn, S. Vandoren and A. Van Proeyen,  *$\mathcal{N} = 2$  supergravity in five dimensions revisited*, in preparation
- [174] E. Bergshoeff, S. Cucu, T. de Wit, J. Gheerardyn, S. Vandoren and A. Van Proeyen, *The map between conformal hypercomplex/hyperkähler and quaternionic(-Kähler) geometry*, in preparation
- [175] N. Alonso Alberca *et al.*, *Domain walls of  $D = 8$  gauged supergravities and their  $D = 11$  origin*, hep-th/0303113
- [176] S. Hawking and J. Ellis, *The large scale structure of spacetime*, Cambridge, UK: Univ. Pr. (1973) 391 p
- [177] S. Salamon, *Differential geometry of quaternionic manifolds*, Ann. Scient. Ec. Norm. Sup., 4ème serie **19** (1986) 31–55

- [178] D. V. Alekseevsky and S. Marchiafava, *Quaternionic structures on a manifold and subordinated structures*, Ann. Matem. pura appl. (IV) **171** (1996) 205–273
- [179] P. Spindel, A. Sevrin, W. Troost and A. Van Proeyen, *Extended supersymmetric sigma models on group manifolds. I. The complex structures*, Nucl. Phys. **B308** (1988) 662
- [180] D. Joyce, *Compact hypercomplex and quaternionic manifolds*, J. Diff. Geom **35** (1992) 743–761
- [181] M. L. Barberis and I. Dotti-Miatello, *Hypercomplex structures on a class of solvable Lie groups*, Quart. J. Math. Oxford (2) **47** (1996) 389–404
- [182] G. Gentili, S. Marchiafava and M. Pontecorvo, eds., *Quaternionic structures in mathematics and physics*. World Scientific, 1996, Proceedings of workshop in Trieste, September 1994; ILAS/FM-6/1996, available on <http://www.emis.de/proceedings/QSMP94/>
- [183] S. Marchiafava, P. Piccinni and M. Pontecorvo, eds., *Quaternionic structures in mathematics and physics*. World Scientific, 2001, Proceedings of workshop in Roma, September 1999; available on <http://www.univie.ac.at/EMIS/proceedings/QSMP99/>
- [184] H. Pedersen, Y. a Poon and A. a Swann, *Hypercomplex structures associated to quaternionic manifolds*, Diff. Geom. Appl. **9** (1998) 273–292
- [185] H. Pedersen, *Hypercomplex geometry*, in *Quaternionic structures in mathematics and physics*, World Scientific 2001, eds. S. Marchiafava, P. Piccinni and M. Pontecorvo, available on <http://www.univie.ac.at/EMIS/proceedings/QSMP99/>
- [186] V. Oproiu, *Almost quaternary structures*, An. st. Univ. Iași **23** (1977) 287–298
- [187] D. V. Alekseevsky, *Classification of quaternionic spaces with a transitive solvable group of motions*, Math. USSR Izvestija **9** (1975) 297–339
- [188] K. Galicki, *A generalization of the momentum mapping construction for Quaternionic Kähler manifolds*, Commun. Math. Phys. **108** (1987) 117