

PUBLICATIONS

Refereed Journal Papers

- (1) Anomaly Corrected Heterotic Horizons, A. Fontanella, J. B. Gutowski and G. Papadopoulos, *JHEP* **10** (2016) 121; arXiv:1605.05635 (hep-th).
- (2) AdS₅ backgrounds with 24 Supersymmetries, S. W. Beck, J. B. Gutowski and G. Papadopoulos, *JHEP* **06** (2016) 126; arXiv:1601.06645 (hep-th).
- (3) Dynamical symmetry enhancement near massive IIA horizons, U. Gran, J. Gutowski, U. Kayani and G. Papadopoulos, *Class. Quantum Grav.* **32** (2015) 235004; arXiv:1411.5286 (hep-th).
- (4) Supersymmetry of IIA warped flux AdS and flat backgrounds, S. Beck, J. B. Gutowski and G. Papadopoulos, *JHEP* **09** (2015) 135; arXiv:1501.07620 (hep-th).
- (5) Geometry and supersymmetry of heterotic warped flux AdS backgrounds, S. W. Beck, J. B. Gutowski and G. Papadopoulos, *JHEP* **07** (2015) 152; arXiv:1505.01693 (hep-th).
- (6) Dynamical symmetry enhancement near IIA horizons, U. Gran, J. Gutowski, U. Kayani and G. Papadopoulos, *JHEP* **06** (2015) 139; arXiv:1409.6303 (hep-th).
- (7) Supersymmetry of AdS and flat backgrounds in M-theory, J. B. Gutowski and G. Papadopoulos, *JHEP* **02** (2015) 145; arXiv:1407.5652 (hep-th).
- (8) Supersymmetry of AdS and flat IIB backgrounds, S. W. Beck, J. B. Gutowski and G. Papadopoulos, *JHEP* **02** (2015) 020; arXiv:1410.3431 (hep-th).
- (9) Non-existence of supersymmetric AdS₅ black rings, J. Grover, J. B. Gutowski and W. A. Sabra, *JHEP* **11** (2014) 027; arXiv:1306.0017 (hep-th).
- (10) Index Theory and Supersymmetry of 5D Horizons, J. Grover, J. B. Gutowski, G. Papadopoulos and W. A. Sabra, *JHEP* **06** (2014) 020; arXiv:1303.0853 (hep-th).
- (11) Index theory and dynamical symmetry enhancement near IIB horizons, U. Gran, J. Gutowski and G. Papadopoulos, *JHEP* **11** (2013) 104; arXiv:1306.5765 (hep-th).
- (12) Enhanced Euclidean supersymmetry, 11D supergravity and $SU(\infty)$ Toda equation, M. Dunajski, J. Gutowski and W. Sabra, *JHEP* **10** (2013) 089; arXiv:1301.1896 (hep-th).
- (13) IIB horizons, U. Gran, J. Gutowski and G. Papadopoulos, *Class. Quant. Grav.* **30** (2013) 205004; arXiv:1304.6539 (hep-th).
- (14) Para-Complex Geometry and Gravitational Instantons, J. B. Gutowski and W. A. Sabra, *Class. Quant. Grav.* **30** (2013) 195001; arXiv:1210.2332 (hep-th).
- (15) Index theory and dynamical symmetry enhancement of M-horizons, J. Gutowski and G. Papadopoulos, *JHEP* **05** (2013) 088; arXiv:1303.0869 (hep-th).
- (16) AdS backgrounds from black hole horizons, U. Gran, J. Gutowski and G. Papadopoulos, *Class. Quant. Grav.* **30** (2013) 055014; arXiv:1110.0479 (hep-th).

- (17) Euclidean N=2 Supergravity, J. B. Gutowski and W. A. Sabra, Phys. Lett. **B718** (2012) 610; arXiv:1209.2029 (hep-th).
- (18) Einstein Weyl Structures and de Sitter Supergravity, J. B. Gutowski, A. Palomo-Lozano and W. A. Sabra, Class. Quant. Grav. **29** (2012) 105006; arXiv:1109.5257 (hep-th).
- (19) Small Horizons, J. Gutowski, D. Klemm, W. A. Sabra and P. Sloane, JHEP 01 (2012) 146; arXiv:1109.1566 (hep-th).
- (20) Static M-horizons, J. Gutowski and G. Papadopoulos, JHEP 01 (2012) 005; arXiv:1106.3085 (hep-th).
- (21) IIB black hole horizons with five-form flux and extended supersymmetry, U. Gran, J. Gutowski and G. Papadopoulos, JHEP 09 (2011) 047; arXiv:1104.2908 (hep-th).
- (22) IIB black hole horizons with five-form flux and KT geometry. U. Gran, J. Gutowski and G. Papadopoulos JHEP 05 (2011) 050; arXiv:1101.1247 (hep-th).
- (23) Towards Cosmological Black Rings, J. Gutowski and W. A. Sabra, JHEP 05 (2011) 020; arXiv:1012.2120 (hep-th).
- (24) Cosmological Einstein-Maxwell Instantons and Euclidean Supersymmetry: Beyond Self-Duality, M. Dunajski, J. B. Gutowski, W. A. Sabra and P. Tod, JHEP 03 (2011) 131; arXiv:1012.1326 (hep-th).
- (25) HKT Geometry and Fake Five Dimensional Supergravity. J. B. Gutowski and W.A. Sabra, Class. Quant. Grav. **28** (2011) 175023; arXiv:1009.4453 (hep-th).
- (26) Gravitational Instantons and Euclidean Supersymmetry, J. B. Gutowski and W. A. Sabra, Phys. Lett. **B693** (2010) 498; arXiv:1007.2421 (hep-th).
- (27) Cosmological Einstein-Maxwell Instantons and Euclidean Supersymmetry: Anti-Self-Dual Solutions, M. Dunajski, J. Gutowski, W. Sabra and P. Tod, Class. Quant. Grav. **28** (2011) 025007; arXiv:1006.5149 (hep-th).
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- (29) Heterotic horizons, Monge-Ampere equation and del Pezzo surfaces, J. Gutowski, G. Papadopoulos, JHEP **10** (2010) 084; arXiv:1003.2864 (hep-th).
- (30) Horizons in de-Sitter Supergravity, J. Grover and J. Gutowski, JHEP **04** (2010) 009; arXiv:1001.2460 (hep-th).
- (31) M-theory backgrounds with 30 Killing spinors are maximally supersymmetric, U. Gran, J. Gutowski and G. Papadopoulos JHEP **03** (2010) 112; arXiv:1001.1103 (hep-th).
- (32) Heterotic Black Horizons, J. Gutowski and G. Papadopoulos, JHEP **07** (2010) 011; arXiv:0912.3472 (hep-th).
- (33) Gauduchon-Tod structures, Sim holonomy and De Sitter supergravity, J. Grover, J. B. Gutowski, C. A. R. Herdeiro, P. Meessen, A. Palomo-Lozano and W. A. Sabra; JHEP **07** (2009) 069; arXiv:0905.3047 (hep-th).

- (34) Solutions of Minimal Four Dimensional de Sitter Supergravity, J.B. Gutowski and W. A. Sabra, *Class. Quantum Grav.* **27** (2010) 235017; arXiv:0903.0179 (hep-th).
- (35) Classification of IIB backgrounds with 28 supersymmetries, U. Gran, J. Gutowski and G. Papadopoulos, *JHEP* **01** (2010) 044; arXiv:0902.3642 (hep-th).
- (36) Enhanced Horizons. J. B. Gutowski and W. A. Sabra, *Class. Quantum Grav.* **27** (2010) 235011; arXiv:0807.4714 (hep-th).
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- (38) HKT Geometry and de Sitter Supergravity, J. Grover, J. B. Gutowski, C. A. R. Herdeiro and W. Sabra, *Nucl. Phys.* **B809** (2009) 406; arXiv:0806.2626 (hep-th).
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- (40) Five Dimensional Non-Supersymmetric Black Holes and Strings, J. B. Gutowski and W. Sabra, *JHEP* **05** (2009) 092; arXiv:0803.3189 (hep-th).
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- (42) Geometry of all Supersymmetric Four-Dimensional $\mathcal{N} = 1$ Supergravity Backgrounds, U. Gran, J. B. Gutowski and G. Papadopoulos, *JHEP* **06** (2008) 102; arXiv:0802.1779 (hep-th).
- (43) Null Half-Supersymmetric Solutions in Five-Dimensional Supergravity, J. Grover, J. B. Gutowski and W. Sabra, *JHEP* **10** (2008) 103; arXiv:0802.0231 (hep-th).
- (44) IIB solutions with $N > 28$ Killing spinors are maximally supersymmetric, U. Gran, J. B. Gutowski, G. Papadopoulos and D. Roest, *JHEP* **12** (2007) 070; arXiv:0710.1829 (hep-th).
- (45) Half-Supersymmetric Solutions in Five-Dimensional Supergravity, J. B. Gutowski and W. Sabra; *JHEP* **12** (2007) 025; arXiv:0706.3147 (hep-th).
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- (47) IIB Backgrounds with Five-Form Flux, U. Gran, J. B. Gutowski and G. Papadopoulos, *Nucl. Phys.* **B798** (2008) 36; arXiv:0705.2208 (hep-th).
- (48) Aspects of Spinorial Geometry, U. Gran, J. B. Gutowski, G. Papadopoulos and D. Roest, (Invited review for *Modern Physics Letters A*), *Mod. Phys. Lett.* **A22** (2007) 1; hep-th/0612148.
- (49) $N=31$, $D=11$, U. Gran, J. B. Gutowski, G. Papadopoulos and D. Roest, *JHEP* **02** (2007) 043; hep-th/0610331.
- (50) Maximally Minimal Preons in Four Dimensions, J. Grover, J. B. Gutowski and W. Sabra, *Class. Quant. Grav.* **24** (2007) 3259; hep-th/0610128.

- (51) Non-Supersymmetric Charged Domain Walls, J. B. Gutowski and W. Sabra, *Phys. Lett.* **B643** (2006) 190; hep-th/0610047.
- (52) Vanishing Preons in the Fifth Dimension, J. Grover, J. B. Gutowski and W. Sabra, *Class. Quant. Grav.* **24** (2007) 417; hep-th/0608187.
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- (61) Concentric Black Rings, J. P. Gauntlett and J. B. Gutowski, *Phys. Rev.* **D71** (2005) 0408010; hep-th/0408010
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- (82) The Moduli Spaces of Worldvolume Brane Solitons, J. B Gutowski and G. Papadopoulos, Phys. Lett. **B432** (1998) 97; hep-th/9802186.

Refereed Conference Papers

- (i) Five Dimensional Minimal Supergravities and Four Dimensional Complex Geometries, J. Grover, J. B. Gutowski , C. A. R. Herdeiro and W. Sabra, Proceedings of Spanish Relativity Meeting 2008: Physics and Mathematics of Gravitation, Salamanca, Spain, 15-19 Sep 2008; arXiv:0901.4066 (hep-th).
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