

## PUBLICATIONS

### Refereed Journal Papers

- (1) A note on the Hyper-CR equation, and gauged  $N = 2$  supergravity, M. Dunajski, J. Gutowski and W. Sabra, *Phys. Lett. B* **780** (2018) 166; arXiv:1801.10013 (math-ph).
- (2) Calibrated Entanglement Entropy, I. Bakhmatov, N. S. Deger, J. Gutowski, E. O. Colgain and H. Yavartanoo, *JHEP* **07** (2017) 117; arXiv:1705.08319 (hep-th).
- (3) On supersymmetric AdS<sub>6</sub> solutions in 10 and 11 dimensions, J. Gutowski and G. Papadopoulos, *JHEP* **12** (2017) 009; arXiv:1702.06048 (hep-th).
- (4) Moduli Spaces of Transverse Deformations of Near-Horizon Geometries, A. Fontanella and J. B. Gutowski, *J. Phys. A* **50** (2017) no.21, 215202; arXiv:1610.09949 (hep-th).
- (5) Einstein-Weyl spaces and near-horizon geometry, M. Dunajski, J. Gutowski and W. Sabra, *Class. Quant. Grav.* **34** (2017) no.4, 045009; arXiv:1610.08953 (hep-th).
- (6) Five-dimensional Nernst branes from special geometry, P. Dempster, D. Errington, J. Gutowski and T. Mohaupt, *JHEP* **11** (2016) 114; arXiv:1609.05062 (hep-th).
- (7) Dynamical symmetry enhancement near  $\mathcal{N} = 2$ ,  $D = 4$  gauged supergravity horizons, J. Gutowski, T. Mohaupt and G. Papadopoulos, *JHEP* **03** (2017) 150; arXiv:1607.02877 (hep-th).
- (8) On supersymmetric Anti-de-Sitter, de-Sitter and Minkowski flux backgrounds, U. Gran, J. B. Gutowski and G. Papadopoulos, *Class. Quant. Grav.* **35** (2018) no.6, 065016; arXiv:1607.00191 (hep-th).
- (9) Anomaly Corrected Heterotic Horizons, A. Fontanella, J. B. Gutowski and G. Papadopoulos, *JHEP* **10** (2016) 121; arXiv:1605.05635 (hep-th).
- (10) AdS<sub>5</sub> backgrounds with 24 supersymmetries, S. W. Beck, J. B. Gutowski and G. Papadopoulos, *JHEP* **06** (2016) 126; arXiv:1601.06645 (hep-th).
- (11) 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).
- (12) 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).
- (13) 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).
- (14) Dynamical symmetry enhancement near IIA horizons, U. Gran, J. Gutowski, U. Kayani and G. Papadopoulos, *JHEP* **06** (2015) 139; arXiv:1409.6303 (hep-th).
- (15) Supersymmetry of AdS and flat backgrounds in M-theory, J. B. Gutowski and G. Papadopoulos, *JHEP* **02** (2015) 145; arXiv:1407.5652 (hep-th).

- (16) 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).
- (17) Non-existence of supersymmetric AdS<sub>5</sub> black rings, J. Grover, J. B. Gutowski and W. A. Sabra, *JHEP* **11** (2014) 027; arXiv:1306.0017 (hep-th).
- (18) 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).
- (19) 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).
- (20) 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).
- (21) IIB horizons, U. Gran, J. Gutowski and G. Papadopoulos, *Class. Quant. Grav.* **30** (2013) 205004; arXiv:1304.6539 (hep-th).
- (22) Para-Complex Geometry and Gravitational Instantons, J. B. Gutowski and W. A. Sabra, *Class. Quant. Grav.* **30** (2013) 195001; arXiv:1210.2332 (hep-th).
- (23) Index theory and dynamical symmetry enhancement of M-horizons, J. Gutowski and G. Papadopoulos, *JHEP* **05** (2013) 088; arXiv:1303.0869 (hep-th).
- (24) AdS backgrounds from black hole horizons, U. Gran, J. Gutowski and G. Papadopoulos, *Class. Quant. Grav.* **30** (2013) 055014; arXiv:1110.0479 (hep-th).
- (25) Euclidean N=2 Supergravity, J. B. Gutowski and W. A. Sabra, *Phys. Lett.* **B718** (2012) 610; arXiv:1209.2029 (hep-th).
- (26) 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).
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- (28) Static M-horizons, J. Gutowski and G. Papadopoulos, *JHEP* **01** (2012) 005; arXiv:1106.3085 (hep-th).
- (29) 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).
- (30) 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).
- (31) Towards Cosmological Black Rings, J. Gutowski and W. A. Sabra, *JHEP* **05** (2011) 020; arXiv:1012.2120 (hep-th).
- (32) 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).
- (33) 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).

- (34) Gravitational Instantons and Euclidean Supersymmetry, J. B. Gutowski and W. A. Sabra, *Phys. Lett.* **B693** (2010) 498; arXiv:1007.2421 (hep-th).
- (35) 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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- (37) Heterotic horizons, Monge-Ampere equation and del Pezzo surfaces, J. Gutowski, G. Papadopoulos, *JHEP* **10** (2010) 084; arXiv:1003.2864 (hep-th).
- (38) Horizons in de-Sitter Supergravity, J. Grover and J. Gutowski, *JHEP* **04** (2010) 009; arXiv:1001.2460 (hep-th).
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- (40) Heterotic Black Horizons, J. Gutowski and G. Papadopoulos, *JHEP* **07** (2010) 011; arXiv:0912.3472 (hep-th).
- (41) 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).
- (42) 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).
- (43) Classification of IIB backgrounds with 28 supersymmetries, U. Gran, J. Gutowski and G. Papadopoulos, *JHEP* **01** (2010) 044; arXiv:0902.3642 (hep-th).
- (44) Enhanced Horizons. J. B. Gutowski and W. A. Sabra, *Class. Quantum Grav.* **27** (2010) 235011; arXiv:0807.4714 (hep-th).
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- (46) 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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- (48) 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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- (50) 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).

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- (52) 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).
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- (54) The return of the four- and five-dimensional preons, J. Figueroa-O'Farrill, J. B. Gutowski and W. Sabra, *Class. Quant. Grav.* **24** (2007) 4429; arXiv:0705.2778 (hep-th).
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- (57)  $N=31$ ,  $D=11$ , U. Gran, J. B. Gutowski, G. Papadopoulos and D. Roest, *JHEP* **02** (2007) 043; hep-th/0610331.
- (58) Maximally Minimal Preons in Four Dimensions, J. Grover, J. B. Gutowski and W. Sabra, *Class. Quant. Grav.* **24** (2007) 3259; hep-th/0610128.
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Refereed Conference Papers

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- (iv) Generalized Calibrations; Proceedings of the Cargese '99 ASI "Progress in String Theory and M-Theory", J. B. Gutowski; hep-th/9909096.