

# GUSTAVO DOTTI PUBLICATIONS

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## PREPRINTS:

1. *Gravitational instability of the inner static region of a Reissner-Nordstrom black hole*, G. Dotti and R. J. Gleiser, arXiv:1001.0152 [Unknown].

## PUBLISHED PAPERS:

2. *The Initial value problem for linearized gravitational perturbations of the Schwarzschild naked singularity*, G. Dotti and R.J. Gleiser, *Class. Quant. Grav.* **26**, 215002 (2009) [arXiv:0809.3615 [gr-qc]]. **PDF**.
3. *Gravitational instabilities in Kerr space times*, G. Dotti, R. J. Gleiser, I. F. Ranea-Sandoval and H. Vucetich, *Class. Quant. Grav.* **25**:245012 (2008), arXiv:0805.4306 [gr-qc]. **PDF**.
4. *Static black hole solutions with a self interacting conformally coupled scalar field*, G. Dotti, C. Martnez and R. J Gleiser, *Phys.Rev.* **D 77**:104035, (2008), arXiv:0710.1735 [hep-th], **PDF**.
5. *Exact solutions for the Einstein-Gauss-Bonnet theory in five dimensions: Black holes, wormholes and spacetime horns*, G. Dotti, J. Oliva and R. Troncoso, *Phys.Rev.* **D 76**:064038, (2007) arXiv:0706.1830 [hep-th] **PDF**.
6. *Gravitational instability of static spherically symmetric Einstein-Gauss-Bonnet black holes in five and six dimensions*, M. Beroiz, G. Dotti y R.J. Gleiser, *Phys.Rev.* **D 76**, 024012 (2007), hep-th/0703074 **PDF**.
7. *Static wormhole solution for higher-dimensional gravity in vacuum*, G. Dotti, J. Oliva y R. Troncoso; *Phys.Rev.* **D75** 024002, (2007), hep-th/0607062 **PDF**.
8. *Instability of charged and rotating naked singularities*, G. Dotti, R. J. Gleiser, J. Pullin; *Phys. Lett.* **B 644**, 289 (2006), gr-qc 0607052 **PDF**.
9. *Instability of the negative mass Schwarzschild naked singularity*, R.J. Gleiser y G.Dotti, *Class. Quant. Grav.* **23** (2006), 5063, gr-qc/0604021 **PDF**.
10. *Linear stability of Einstein-Gauss-Bonnet static spacetimes: vector and scalar perturbations*, R.J. Gleiser y G.Dotti, *Phys.Rev.* **D 72** (2005) 124002, gr-qc/0510069 **PDF**.
11. *Obstructions on the horizon geometry from string theory corrections to Einstein gravity*, G. Dotti y R.J. Gleiser, *Phys. Lett.* **B 627** (2005), 174, hep-th/0508118 **PDF**.
12. *Plane fronted gravitational waves in Lovelock-Yang-Mills theory*, R. J. Gleiser y Gustavo Dotti, *Phys.Rev.D* **71** (2005) 124029, gr-qc/0505094 **PDF**.
13. *Linear stability of Einstein-Gauss-Bonnet static spacetimes: Tensor perturbations*, G. Dotti y R. J. Gleiser, *Phys.Rev.* **D72** 044018 (2005), gr-qc/0503117 **PDF**.
14. *Gravitational instability of Einstein-Gauss-Bonnet black holes under tensor mode perturbations*, G. Dotti y R. J. Gleiser, *Class. Quant. Grav.* **22** (2005), L1, gr-qc/0409005 **PDF**.
15. *Topology of quantum modified moduli spaces*, G.Dotti, *JHEP* 0308:023 (2003), hep-th/0306264 **PDF**.
16. *Remarks on Experimental Bounds to QG Effects on Fermions*, G.Dotti y R.Gleiser, *Phys.Rev.D*67:101501 (2003) gr-qc/0302086 **PDF**.
17. *Discrete anomalies and the null cone of SYM theories*, G.Dotti, *Phys. Lett.* **B567** (2003) 315, hep-th/0207151 **PDF**.
18. *Higgs Mechanism and Luna strata in  $\mathcal{N} = 1$  gauge theories*, G. Dotti, *Nuclear Physics* **B 591** (2000), 636, hep-th/0006188 **PDF**.

19. *Non-supersymmetric vacua and the D-flatness condition*, G. Dotti, Nuclear Physics **B 558** (1999), 573, hep-th/9905052 **PDF**.
20. *Supersymmetric gauge theories with a free algebra of invariants*, G. Dotti, A. Manohar y W. Skiba, Nuclear Physics **B 531** (1998), 507, hep-th/9803087 **PDF**.
21. *Supersymmetric gauge theories with an affine quantum moduli space*, G. Dotti y A. Manohar, Phys. Rev. Letters **80**, 2758 (1998), hep-th/9712010 **PDF**.
22. *Anomaly matching conditions and the moduli space of supersymmetric gauge theories*, G. Dotti y A. Manohar, Nuclear Physics **B 518** (1998), 575, hep-th/9710024 **PDF**.
23. *t Hooft conditions in supersymmetric dual theories*, G. Dotti, Phys. Lett. **B 417** (1998), 275, hep-th/9709161 **PDF**.
24. *Anomaly matching conditions in supersymmetric gauge theories*, G. Dotti y A. Manohar, Phys. Lett. **B 410** (1997), 167, hep-th/9706075 **PDF**.
25. *Self dual Maxwell fields on curved spacetimes*, G. Dotti y C. Kozameh, Journal of Math. Phys. **37** (1996), 3833 **PDF**.

#### CONFERENCE PROCEEDINGS

26. G. Dotti, R. J. Gleiser, J. Pullin, I. F. Ranea-Sandoval and H. Vucetich, *Instabilities of naked singularities and black hole interiors in General Relativity*, Int. J. Mod. Phys. A **24**, 1578 (2009) [arXiv:0810.0025 [gr-qc]] **PDF**.
27. G. Dotti, J. Oliva and R. Troncoso, *Vacuum solutions with nontrivial boundaries for the Einstein-Gauss-Bonnet theory*, Int. J. Mod. Phys. A **24**, 1690 (2009) [arXiv:0809.4378 [hep-th]] **PDF**.

#### OTHER PUBLICATIONS

- Refereed contribution to *Concise Encyclopedia of Supersymmetry*, editada por Kluwer Academic Publishers (2003), ISBN 1-4020-1338-8, editores S. Duplij, W. Siegel y J. Bagger.
- *The moduli space of supersymmetric gauge theories*, G. Dotti, Ph.D. thesis, U.C.S.D., March 1998.
- *Distortion effects in positron emission tomography*, G. Dotti, licenciatura thesis, UNC, September 1990.