

## LIST OF PUBLICATIONS

### Articles published in international scientific journals

1. V. Gorini, A. Y. Kamenshchik, U. Moschella, O. F. Piattella and A. A. Starobinsky, *Gauge-invariant analysis of perturbations in Chaplygin gas unified models of dark matter and dark energy*, JCAP **0802** (2008) 016, arXiv:0711.4242
2. V. Gorini, A. Y. Kamenshchik, U. Moschella, O. F. Piattella and A. A. Starobinsky, *More about the Tolman-Oppenheimer-Volkoff equations for the generalised Chaplygin gas*, Phys. Rev. D **80**, 104038 (2009), arXiv:0909.0866
3. O. F. Piattella, *The extreme limit of the generalised Chaplygin gas*, JCAP **1003** (2010) 012, arXiv:0906.4430
4. O. F. Piattella, D. Bertacca, M. Bruni and D. Pietrobon, *Unified Dark Matter models with fast transition*, JCAP **1001** (2010) 014, arXiv:0911.2664
5. L. Rizzi, S. L. Cacciatori, V. Gorini, A. Y. Kamenshchik and O. F. Piattella, *Dark matter effects in vacuum spacetime*, Phys. Rev. D **82**, 027301 (2010), arXiv:1006.4059
6. L. Rizzi, O. F. Piattella, S. L. Cacciatori and V. Gorini, *The Step-Harmonic potential*, Am. J. Phys. **78**, 8, August 2010, arXiv:0912.3198
7. D. Bertacca, O. F. Piattella, M. Bruni and D. Pietrobon, *Unified Dark Matter scalar field models with fast transition*, JCAP **02** (2011) 018, arXiv:1011.6669
8. F. Belgiorno, S. L. Cacciatori, F. Dalla Piazza and O. F. Piattella, *Quantum loss of angular momentum for BTZ black holes*, J. Phys. A **44** (2011) 025202, arXiv:1007.4439
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10. Oliver F. Piattella, Júlio C. Fabris and Winfried Zimdahl, *Bulk viscous cosmology with causal transport theory*, JCAP **1105** (2011) 029, arXiv:1103.1328
11. L. Rizzi, O. F. Piattella, S. L. Cacciatori and V. Gorini, *Two variants of the step-harmonic potential*, Revista Brasileira de Ensino de Física, vol. 38, no 2, e2302 (2016), arXiv:1102.2994
12. Oliver F. Piattella and Daniele Bertacca, *Gravitational potential evolution in Unified Dark Matter Scalar Field Cosmologies: an analytical approach*, Modern Physics Letters **A26** (2011) 2277-2286, arXiv:1103.0234

13. J. C. Fabris, T. C. C. Guio, M. Hamani Daouda, O. F. Piattella, *Scalar models for the generalized Chaplygin gas and the structure formation constraints*, *Gravitation and Cosmology* **17** 3 (2011) 259–271, arXiv:1011.0286
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15. J. C. Fabris, M. Hamani Daouda, O. F. Piattella, *Note on the Evolution of the Gravitational Potential in Rastall Scalar Field Theories*, *Phys. Lett.* **B711** (2012) 232-237, arXiv:1109.2096
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17. C. E. M. Batista, M. H. Daouda, J. C. Fabris, O. F. Piattella and D. C. Rodrigues, *Rastall Cosmology and the  $\Lambda$ CDM Model*, *Phys. Rev.* **D85** (2012) 084008, arXiv:1112.4141
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28. T. R. P. Caramês, M. H. Daouda, J. C. Fabris, A. M. Oliveira, O. F. Piattella and V. Strokov, *The Brans-Dicke-Rastall theory*, Eur. Phys. J. C **74** (2014) 11, 3145, arXiv:1409.2322
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44. I. Torres, J. C. Fabris and O. F. Piattella, *Classical and quantum cosmology of Fab Four John theories*, *Phys. Lett. B* **798**, 135003 (2019) arXiv:1811.08852
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9. J. C. Fabris, T. Miranda and O. F. Piattella, *An exponential correction to Starobinsky's inflationary model*, 2nd International Conference on Particle Physics and Astrophysics (ICPPA 2016), 10-14 Oct 2016. Moscow, Russia, arXiv:1611.05326
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1. Oliver F. Piattella, *Cosmology and Unified dark Matter: the Chaplygin gas and beyond*, ISBN 978-3-8443-8842-8, LAP Lambert Academic Publishing GmbH & Co, 2011.
2. Proceedings of the 1st Jose Plinio Baptista School of Cosmology: *Structure formation in an expanding Universe*, 2014, p. 277, J. C. Fabris, O. F. Piattella, D. C. Rodrigues, W. Zimdahl Editors, EDUFES
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5. O. F. Piattella, *Lecture Notes in Cosmology*, book in press by Springer, arXiv:1803.00070. A constantly-updated pdf version can be found on my personal webpage: <http://ofp.cosmo-ufes.org/teaching.html>.