



# List of Publications - 2011

Final version, July 2012

## Refereed international articles

### Cosmology

“Real space CMB lensing reconstruction with point source masks”, Carvalho, C. S., and **Tereno, I.** 2011, Phys. Rev. D 84, 063001 (2011)

“COSMOS weak-lensing constraints on modified gravity”, **Tereno, I.**, Semboloni, E., & Schrabback, T. 2011, A&A, 530, A68

“Exact solutions of Brans-Dicke wormholes in the presence of matter”, N. M. Garcia and **F. S. N. Lobo**, Mod. Phys. Lett. A 40, 3067 (2011)

“Constraining Hořava-Lifshitz gravity by weak and strong gravitational lensing”, Z. Horvath, L. A. Gergely, Z. Keresztes, T. Harko and **F. S. N. Lobo**, Phys. Rev. D 84, 083006 (2011)

“ $f(R,T)$  gravity”, T. Harko, **F. S. N. Lobo**, S. Nojiri and S. D. Odintsov Phys. Rev. D 84, 024020 (2011)

“Palatini formulation of modified gravity with a nonminimal curvature-matter coupling”, T. Harko, T. S. Koivisto and **F. S. N. Lobo**, Mod. Phys. Lett. A 26, 1467 (2011)

“Thin accretion disk signatures of slowly rotating black holes in Hořava gravity”, T. Harko, Z. Kovacs and **F. S. N. Lobo**, Class. Quant. Grav. 28, 165001 (2011)

“Two-fluid dark matter models”, T. Harko and **F. S. N. Lobo**, Phys. Rev. D 83, 124051 (2011)

“Nonminimal curvature-matter coupled wormholes with matter satisfying the null energy condition”, N. Montelongo Garcia and **F. S. N. Lobo**, Class. Quant. Grav. 28, 085018 (2011)

“Energy conditions in modified Gauss-Bonnet gravity” , N. M. Garcia, T. Harko, **F. S. N. Lobo** and **J. P. Mimoso**, Phys. Rev. D 83, 104032 (2011)

“Solar system tests of Hořava-Lifshitz gravity”, T. Harko, Z. Kovacs and **F. S. N. Lobo**, Proc. Roy. Soc. Lond. A Math. Phys. Eng. Sci. 467, 1390 (2011)

“f(G) modified gravity and the energy conditions”, N. Montelongo Garcia, **F. S. N. Lobo**, **J. P. Mimoso** and T. Harko, J. Phys. Conf. Ser. 314, 012056 (2011)

“Late-time cosmic acceleration: Dark gravity” **F. S. N. Lobo**, J. Phys. Conf. Ser. 314, 012060 (2011)

“The role of shell crossing on the existence and stability of trapped matter shells in spherical inhomogeneous Lambda-CDM models”, **M. L. Delliou**, F. C. Mena, **J. P. Mimoso**, Phys. Rev. D 83, 103528 (2011)

## Galaxy Formation and Evolution

“Ultra Steep Spectrum Radio Sources in the Lockman Hole: SERVS Identifications and Redshift Distribution at the Faintest Radio Fluxes”, **Afonso, J., Bizzocchi, L.**, Ibar, E., **Grossi, M.**, et al. (including also **C. Fernandes**), 2011, ApJ, 743, 122

“The Herschel Virgo Cluster Survey. IX. Dust-to-gas mass ratio and metallicity gradients in four Virgo spiral galaxies”, Magrini, L., Bianchi, S., Corbelli, E., Cortese, L., et al. (including **M. Grossi**), 2011, A&A, Volume 535, A13

“Stellar structures in the outer regions of M 33”, Grossi, M., Hwang, N., Corbelli, E., Giovanardi, C., et al. (including **M. Grossi**), 2011, A&A, 533, A91

“The GALEX Ultraviolet Virgo Cluster Survey (GUViCS). I. The UV luminosity function of the central 12 sq. deg”, Boselli, A., Boissier, S., Heinis, S., Cortese, L., et al. (including **M. Grossi**), 2011, A&A, 528, 107.

“EMU: Evolutionary Map of the Universe”, Norris, Ray P., Hopkins, A. M., **Afonso, J.**, et al. 2011, Publications of the Astronomical Society of the Pacific, 28, 215.

“Deep Spitzer observations of infrared-faint radio sources: high-redshift radio-loud AGN?”, Norris, Ray P., **Afonso, J.**, Cava, A., Farrah, D., Huynh, Minh T., Ivison, R. J., Jarvis, M., Lacy, M., Mao, M., Maraston, C., Mauduit, Jean-Christophe, Middelberg, E., Oliver, S., Seymour, N., & Surace, J. 2011, Astrophysical Journal, 736, 55.

“The Spitzer Extragalactic Representative Volume Survey (SERVS): The Environments of High-z SDSS Quasi-Stellar Objects”, Falder, J. T., Stevens, J. A., Jarvis, Matt J., Bonfield, D. G., Lacy, M., Farrah, D., Oliver, S., Surace, J., Mauduit, J. -C., Vaccari, M., Marchetti, L., Gonzalez-Solares, E., **Afonso, J.**, Cava, A., & Seymour, N. 2011, Astrophysical Journal, i735, 123.

“LOFAR and APERTIF surveys of the radio sky: probing shocks and magnetic fields in galaxy clusters“, Rottgering, H., **Afonso, J.**, Barthel, P., et al., 2011, Journal of Astrophysics and Astronomy, 32, 557.

## Planetary Atmospheres

“Venus’s Southern Polar Vortex Reveals Precessing Circulation”, **D. Luz, D. L. Berry**, G. Piccioni, P. Drossart, R. Politi, C. F. Wilson, S. Erard & F. Nuccilli, Science 332, p. 577-580, 2011.

“Assessing the long-term variability of Venus winds at cloud level from VIRTIS–Venus Express”, Hueso, R., **Peralta, J.** and Sánchez-Lavega, A., 2012: Icarus, 217, 585 (available online May 2011, doi:10.1016/j.icarus.2011.04.020).

## Interstellar Medium

“Physical parameters of pre-main sequence stars in open clusters”, Delgado, A. J., Alfaro, E. J., & **Yun, J. L.** 2011, *Astronomy & Astrophysics*, 531, A141.

“The rotational spectra, potential function, Born–Oppenheimer breakdown, and hyperfine structure of GeSe and GeTe ”, B. M. Giuliano, **L. Bizzocchi**, R. Sanchez, P. Villanueva, V. Cortijo, M. E. Sanz, and J.-U. Grabow, *J. Chem. Phys.* 135, 084303 (2011)

“High-resolution infrared spectroscopy of diacetylene below  $1000\text{ cm}^{-1}$ ”, **L. Bizzocchi**, F. Tamassia, C. Degli Esposti, L. Fusina, E. Canè and L. Dore, *Mol. Phys.* 109, 2181 (2011).

“Fine and Hyperfine Structure of the  $N = 1 \leftarrow 0$  Transition of ND ( $X\ 3\Sigma^-$ ) in Vibrational Excited States”, L. Dore, **L. Bizzocchi**, C. Degli Esposti and F. Tamassia, *Mol. Phys.* 109, 2191 (2011).