

Penacchioni, Ana Virginia



Current position:

Assistant researcher at Instituto de Fisica de La Plata (IFLP)
- CONICET and Universidad Nacional de La Plata (UNLP),
Argentina

Previous position:

Siena University Postdoctoral Student

Agenzia Spaziale Italiana, ASI (ASDC), Rome, Italy

Capes Postdoctoral Student at Instituto Nacional de Pesquisas Espaciais – INPE Sao Jose dos Campos, Brazil

Outcome Institution:

EMJD Student

University “Sapienza” of Rome

Publications:

-) R. Ruffini, M. Muccino, M. Kovacevic, F. G. Oliveira, J. A. Rueda, C. L. Bianco, M. Enderli, A. V. Penacchioni, G. B. Pisani, Y. Wang, and E. Zaninoni, “GRB 140619B: a short GRB from a binary neutron stars merger leading to the black hole formation,” *ApJ* 808, 190, (2015), IF: 5.909
<http://adsabs.harvard.edu/abs/2015ApJ...808..190R>

-) L. Amati et al. ; “GAME: GRB and All-sky Monitor Experiment”; *Int.J. Mod.Phys.D23*, 1430010 (2014)
<http://adsabs.harvard.edu/abs/2014IJMPD..2330010A>, IF: 1.963

-) R. Ruffini, Y. Wang, M. Enderli, M. Muccino, M. Kovacevic, C. L. Bianco, A. V. Penacchioni, G. B. Pisani, and J. A. Rueda, “GRB 130427A and SN 2013cq: A Multi-wavelength Analysis of An Induced Gravitational Collapse Event,” *ApJ* 798, 10 (2015) <http://adsabs.harvard.edu/abs/2015ApJ...798...10R>, IF: 5.909

-) R. Ruffini, L. Izzo, M. Muccino, Jorge A. Rueda, C. Barbarino, C.L. Bianco, H. Dereli, M. Enderli, A.V. Penacchioni, G.B. Pisani, Y. Wang; “Induced Gravitational Collapse in the BATSE era: the case of GRB 970828”; *Astronomy Reports*, Volume 59, Issue 7, pp.626-638, IF: 0.805
<http://adsabs.harvard.edu/abs/2015ARep...59..626R>

-) Penacchioni, A.V., Braga, J., Castro, M., D’Amico, F., “Telescope performance and image simulations of the balloon-borne coded-mask protoMIRAX experiment”, *Journal JHEAP* 5-6, 2015, 22-29.
DOI: 10.1016/j.jheap.2015.01.001 <http://adsabs.harvard.edu/abs/2015JHEAp...5..22P>

-) João Braga, Flavio D'Amico, Manuel C. Ávila, Ana V. Penacchioni, José R. Sacahui, Valdivino A. de Santiago Jr., Fátima Mattiello-Francisco, Cesar Strauss, Márcio Fialho; "The protoMIRAX Hard X-ray Imaging Balloon Experiment" *Astronomy & Astrophysics* 580, A108 (2015), IF: 5.185
<http://adsabs.harvard.edu/abs/2015A%26A...580A.108B>
-) R. Ruffini, M. Muccino, C.L. Bianco, M. Enderli, L. Izzo, M. Kovacevic, A.V. Penacchioni, G.B. Pisani, J.A. Rueda, Y. Wang; "On binary-driven hypernovae and their nested late X-ray emission"; *Astronomy & Astrophysics*, 565, L10 (2014). <http://adsabs.harvard.edu/abs/2014A%26A...565L..10R>, IF: 5.185
-) Penacchioni, A.V., Braga, J., Castro, M.A, Sacahui, J.R. D'Amico, F.; Telescope Performance And Image Simulations Of The Balloon-borne Coded-mask protoMIRAX Experiment, Proc. of the 2nd César Latter meeting, "Supernovae, Neutron Stars, Black Holes", 2015, Niterói - Rio De Janeiro, April 13-18 João Pessoa, April 21, Recife - Fortaleza, April 22
- Pisani, G. B.; Ruffini, R.; Aimuratov, Y.; Bianco, C. L.; Kovacevic, M.; Moradi, R.; Muccino, M.; Penacchioni, A. V.; Rueda, J. A.; Shakeri, S.; Wang, Y., "On the Universal Late X-Ray Emission of Binary-driven Hypernovae and Its Possible Collimation", *ApJ*, **833**, 159P (2016), DOI: [10.3847/1538-4357/833/2/159](https://doi.org/10.3847/1538-4357/833/2/159), IF: 5.909
- Adriani, O. and the CALET collaboration, "CALET Upper Limits on X-Ray and Gamma-Ray Counterparts of GW151226", *ApJ*, **829**, L20A (2016), DOI: [10.3847/2041-8205/829/1/L20](https://doi.org/10.3847/2041-8205/829/1/L20), IF: 5.909
-) Sacahui, J. R.; Penacchioni, A. V.; Braga, J.; Castro, M. A.; D'Amico, F., "MIRAX sensitivity for Gamma Ray Bursts", *JHEAp*, **9**, 16S (2016), DOI: [10.1016/j.jheap.2015.12.002](https://doi.org/10.1016/j.jheap.2015.12.002)
-) 2016: "MIRAX sensitivity for Gamma Ray Bursts", J.R. Sacahui, A.V. Penacchioni, J. Braga, M.A. Castro, F. D'Amico, *Journal of High Energy Astrophysics (JHEAP)*, Volumes 9-10, Pages 16-24. DOI: 10.1016/j.jheap.2015.12.002. <http://www.sciencedirect.com/science/article/pii/S2214404815000671>
-) 2016: "Background and imaging simulations for the hard X-ray camera of the MIRAX mission", Castro, M.; Braga, J.; Penacchioni, A.; D'Amico, F.; Sacahui, R., *Monthly Notices of the Royal Astronomical Society (MNRAS)*, Volume 459, Pages 3917-3928., DOI: 10.1093/mnras/stw743. <https://academic.oup.com/mnras/article-abstract/459/4/3917/2623972/Backgroundand-imaging-simulations-for-the-hard-X?redirectedFrom=fulltext>
-) 2016: "CALET Upper Limits on X-Ray and Gamma-Ray Counterparts of GW151226", Adriani, O.; [...] Penacchioni, A.; [...] and the CALET collaboration, *ApJ*, Volume 829, Issue 1, article id. L20, 5 pp., DOI: 10.3847/2041-8205/829/1/L20. <http://iopscience.iop.org/article/10.3847/2041-8205/829/1/L20/meta>
-) 2016: "GRB 090510: A Genuine Short GRB from a Binary Neutron Star Coalescing into a Kerr-Newman Black Hole", Ruffini, R.; Muccino, M.; Aimuratov, Y.; Bianco, C. L.; Cherubini, C.; Enderli, M.; Kovacevic, M.; Moradi, R.; Penacchioni, A. V.; Pisani, G. B.; Rueda, J. A.; Wang, Y., *ApJ*, Volume 831,

Issue 2, article id. 178, 17 pp., DOI: 10.3847/0004-637X/831/2/178.
<http://iopscience.iop.org/article/10.3847/0004-637X/831/2/178/meta>

2016: "On the Universal Late X-Ray Emission of Binary-driven Hypernovae and Its Possible Collimation", Pisani, G. B.; Ruffini, R.; Aimuratov, Y.; Bianco, C. L.; Kovacevic, M.; Moradi, R.; Muccino, M.; Penacchioni, A. V.; Rueda, J. A.; Shakeri, S.; Wang, Y., ApJ, Volume 833, Issue 2, article id. 159, 12 pp., DOI: 10.3847/1538-4357/833/2/159. <http://iopscience.iop.org/article/10.3847/1538-4357/833/2/159/meta>

2016: "Energy calibration of CALET onboard the International Space Station", Asaoka, Y.; [...]; Penacchioni, A. V.; [...] and the CALET collaboration, Astroparticle Physics, Volume 91, p. 1-10., DOI: 10.1016/j.astropartphys.2017.03.002.
<http://www.sciencedirect.com/science/article/pii/S0927650517300786>

2017: "GRB 081024B and GRB 140402A: Two Additional Short GRBs from Binary Neutron Star Mergers", Aimuratov, Y.; Ruffini, R.; Muccino, M.; Bianco, C. L.; Penacchioni, A. V.; Pisani, G. B.; Primorac, D.; Rueda, J. A.; Wang, Y.,
The Astrophysical Journal, Volume 844, Issue 1, article id. 83, 15 pp., DOI: 10.3847/15384357/aa7a9f.
<http://iopscience.iop.org/article/10.3847/1538-4357/aa7a9f/pdf>

Meetings, conferences, seminars, schools:

IRAP Ph.D. Erasmus Mundus Workshop Supernovae, Gamma-ray bursts and the induced gravitational collapse May 11-16, 2014 - Les Houches (France)

2nd César Lattes Meeting "Supernovae, Neutron Stars, Black Holes", 2015, Niterói - Rio De Janeiro, April 13-18 João Pessoa, April 21, Recife - Fortaleza, April 22

XIV Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation, and Relativistic Field Theory, 2015, July 12-18, Rome, Italy. - Oral presentation: Telescope performance and image simulations of the coded-mask balloon-borne experiment protoMIRAX.

-Scientific collaboration with Prof. Ruffini. Pescara, Italy, 20-24 July, 2015

- 2015 High Energy Phenomena in Relativistic Outflows (HEPRO) V, La Plata, Argentina, October, 5th - 8th, Oral presentation: Estimating GRB detection rate with MIRAX.

- 2017 São Paulo School of Advanced Science on High Energy and Plasma Astrophysics in the CTA Era (SPSAS-HighAstro), São Paulo, Brazil, May, 21st-31st, Participation as a student.