

Rueda Hernández, Jorge Armando

Position:

Assistant Professor at ICRA Net
Member of ICRA Net Faculty
Capes Senior Visitor Professor to Brazil



List of visits:

1st year:

From December 15, 2013 to January 15, 2014

From August 1, 2014 to August 31, 2014

2nd year:

From April 12 2015 to May 12, 2015

3rd year:

To be defined

Publications:

-) D. L. Cáceres, S. M. de Carvalho, J. G. Coelho, R. C. R. de Lima, J. A. Rueda, "Thermal X-ray emission from massive, fast rotating, highly magnetized white dwarfs", MNRAS 465, 4434 (2017). <http://adsabs.harvard.edu/abs/2017MNRAS.465.4434C>, IF: 4.952

-) J. G. Coelho, D. L. Cáceres, R. C. R. de Lima, M. Malheiro, J. A. Rueda, and R. Ruffini, "The rotation-powered nature of some soft gamma-ray repeaters and anomalous X-ray pulsars", A&A, accepted. <http://dx.doi.org/10.1051/0004-6361/201629521>, IF: 5.185

-) R. Ruffini, J. A. Rueda, M. Muccino, G. B. Pisani, Y. Wang, L. M. Becerra, M. Kovacevic, F. G. Oliveira, Y. Aimuratov, C. L. Bianco, R. Moradi, J. Rodriguez, and U. Barres, "On the rate and on the gravitational wave emission of short and long GRBs," ApJ, submitted; arXiv: 1602.03545. <http://adsabs.harvard.edu/abs/2016arXiv160203545R>, IF: 5.909

-) R. Ruffini, M. Muccino, Y. Aimuratov, C. L. Bianco, C. Cherubini, M. Enderli, M. Kovacevic, R. Moradi, A. V. Penacchioni, G. B. Pisani, J. A. Rueda, and Y. Wang, "GRB 090510: a genuine short-GRB from a binary neutron star coalescing into a Kerr-Newman black hole," ApJ 831, 178 (2016). <http://adsabs.harvard.edu/abs/2016ApJ...831..178R>, IF: 5.909

-) Ruffini, J. A. Rueda, M. Muccino, Y. Aimuratov, L. M. Becerra, C. L. Bianco, M. Kovacevic, R. Moradi, F. G. Oliveira, G. B. Pisani, and Y. Wang, "On the classification of GRBs and their occurrence rates", ApJ 832, 136 (2016). <http://adsabs.harvard.edu/abs/2016ApJ...832..136R>, IF: 5.909

-) R. Ruffini, Y. Aimuratov, C. L. Bianco, M. Enderli, M. Kovacevic, R. Moradi, M. Muccino, A. V. Penacchioni, G. B. Pisani, J. A. Rueda, and Y. Wang, "Induced gravitational collapse in FeCO Core-Neutron star binaries and Neutron star-Neutron star binary mergers", *IJMPA* 30, 1545023 (2015). <http://adsabs.harvard.edu/abs/2015IJMPA..3045023R>, IF: 1.699
-) A. Mesquita, M. Razeira, R. Ruffini, J. A. Rueda, D. Hadjimichef, R. O. Gomes, and C. A. Z. Vasconcellos, "An effective field theory for neutron stars with many-body forces, strong- repulsion, and $-K$ and \bar{K} 0 condensation", *Astronomische Nachrichten* 336, 880 (2015). <http://adsabs.harvard.edu/abs/2015AN....336..880M>, IF: 0.956
-) 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 star merger leading to black hole formation", *ApJ* 808, 190 (2015). <http://adsabs.harvard.edu/abs/2015ApJ...808..190R>, IF: 5.909
-) Y. Wang, R. Ruffini, M. Kovacevic, C. L. Bianco, M. Enderli, M. Muccino, A. V. Penacchioni, G. B. Pisani, and J. A. Rueda, "Predicting supernova associated to gamma-ray burst 130427a", *Astronomy Reports* 59, 667 (2015). <http://adsabs.harvard.edu/abs/2015ARep...59..667W>, IF: 0.956
-) R. Ruffini, L. Izzo, C. L. Bianco, J. A. Rueda, C. Barbarino, H. Dereli, M. Enderli, M. Muccino, A. V. Penacchioni, G. B. Pisani, and Y. Wang, "Induced gravitational collapse in the BATSE era: The case of GRB 970828", *Astronomy Reports* 59, 626 (2015). <http://adsabs.harvard.edu/abs/2015ARep...59..626R> IF: 0.805
-) M. Muccino, R. Ruffini, C. L. Bianco, M. Enderli, M. Kovacevic, L. Izzo, A. V. Penacchioni, G. B. Pisani, J. A. Rueda, and Y. Wang, "On binary driven hypernovae and their nested late X-ray emission", *Astronomy Reports* 59, 581 (2015). <http://adsabs.harvard.edu/abs/2015ARep...59..581M>, IF: 0.805
-) L. Becerra, F. Cipolletta, C. L. Fryer, J. A. Rueda, R. Ruffini, "Angular Momentum Role in the Hypercritical Accretion of Driven Binary Hypernovae", *ApJ* 812, 100 (2015). <http://adsabs.harvard.edu/abs/2015ApJ...812..100B>, IF: 5.909
-) C. L. Fryer, F. G. Oliveira, J. A. Rueda, and R. Ruffini, "On the Neutron Star-Black Hole Binaries Produced by Driven Hypernovae," *Phys. Rev. Lett.* 115, 231102 (2015). <http://adsabs.harvard.edu/abs/2015PhRvL.115w1102F>, IF: 7.645
-) R. Belvedere, J. A. Rueda, and R. Ruffini, "On the Magnetic Field of Pulsars with Realistic Neutron Star Configurations," *ApJ* 799, 23 (2015). <http://adsabs.harvard.edu/abs/2015ApJ...799...23B>, IF: 5.909
-) 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

-) Pereira, Jonas P. and Rueda, Jorge A.; “Energy decomposition within Einstein-Born-Infeld black holes”, Phys. Rev. D 91, 064048 (2015). <http://adsabs.harvard.edu/abs/2015PhRvD..91f4048P>, IF: 4.506
-) J. P. Pereira and J. A. Rueda, “Radial Stability in Stratified Stars,” ApJ 801, 19 (2015), IF: 5.909
<http://adsabs.harvard.edu/abs/2015ApJ...801...19P>
-) S. M. de Carvalho, R. Negreiros, J. A. Rueda, and R. Ruffini, “Thermal evolution of neutron stars with global and local neutrality,” Phys. Rev. C 90, 055804 (2014), IF: 3.146
<http://adsabs.harvard.edu/abs/2014PhRvC..90e5804D>
-) J. P. Pereira, J. G. Coelho, J. A. Rueda, R. Ruffini; “Stability of thin-shell interfaces inside compact stars”; Phys. Rev. D 90, 123011 (2014). <http://adsabs.harvard.edu/abs/2014PhRvD..90l3011P>, IF: 4.506
-) J. P. Pereira, H. J. Mosquera Cuesta, J. A. Rueda, and R. Ruffini, “On the black hole mass decomposition in nonlinear electrodynamics,” Physics Letters B 734, 396 (2014), IF: 3.718
<http://adsabs.harvard.edu/abs/2014PhLB..734..396P>
-) F. G. Oliveira, J. A. Rueda, and R. Ruffini, “Gravitational Waves versus X-Ray and Gamma-Ray Emission in a Short Gamma-Ray Burst,” ApJ 787, 150 (2014), IF: 5.909
<http://adsabs.harvard.edu/abs/2014ApJ...787..150O>
-) K. Boshkayev, D. Bini, J. Rueda, A. Geralico, M. Muccino, and I. Siutsou, “What can we extract from quasiperiodic oscillations?,” Gravitation and Cosmology 20, 233 (2014), IF: 0.909
<http://adsabs.harvard.edu/abs/2014GrCo...20..233B>
-) J. G. Coelho, R. M. Marinho, M. Malheiro, R. Negreiros, D. L. Cáceres, J. A. Rueda, R. Ruffini; “Dynamical instability of white dwarfs and breaking of spherical symmetry under the presence of extreme magnetic fields”; ApJ 794, 86 (2014). <http://adsabs.harvard.edu/abs/2014ApJ...794...86C>, IF: 5.909
-) R. Belvedere, K. Boshkayev, Jorge A. Rueda, R. Ruffini; “Uniformly rotating neutron stars in the global and local charge neutrality cases”; Nuclear Physics A 921, 33 (2014), IF: 1.258
<http://adsabs.harvard.edu/abs/2014NuPhA.921...33B>
-) 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
-) S. M. Carvalho, M. Rotondo, Jorge A. Rueda, R. Ruffini; “Relativistic Feynman-Metropolis-Teller treatment at finite temperatures”; Physical Review C 89, 015801 (2014), IF: 3.146
<http://adsabs.harvard.edu/abs/2014PhRvC..89a5801D>

-) M. Razeira, A. Mesquita, C. A. Z. Vasconcellos, R. Ruffini, J. A. Rueda, R. O. Gomes; “Strangeness content of neutron stars with strong sigma-hyperon repulsion”; *Astronomische Nachrichten* 335, 739 (2014). <http://adsabs.harvard.edu/abs/2014AN....335..739R>, IF: 0.956

-) M. Razeira, A. Mesquita, C. A. Z. Vasconcellos, R. Ruffini, J. A. Rueda, R. O. Gomes; “Effective field theory for neutron stars with strong sigma-hyperon repulsion”; *Astronomische Nachrichten* 335, 733 (2014). <http://adsabs.harvard.edu/abs/2014AN....335..733R>, IF: 0.956

-) S. M. de Carvalho, J. A. Rueda, and R. Ruffini, “On the cooling of globally-neutral neutron stars,” *Journal of Korean Physical Society* 65, 861 (2014). <http://adsabs.harvard.edu/abs/2014JKPS...65..861D>, IF: 0.445

-) K. Boshkayev, J. A. Rueda, R. Ruffini, and I. Siutsou, “General relativistic white dwarfs and their astrophysical implications,” *Journal of Korean Physical Society* 65, 855 (2014), IF: 0.445
<http://adsabs.harvard.edu/abs/2014JKPS...65..855B>

Meetings, conferences, seminars, schools:

Third Bego Rencontres - IRAP Ph.D. Erasmus Mundus school - September 8th-19th 2014

Yerevan, Armenia - 1stScientific ICRANet Meeting in Armenia: Black Holes: the largest energy sources in the Universe - 30 June - 4 July 2014

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

2013 yearly ICRANet Scientific Meeting on Relativistic Astrophysics on the Occasion of the 50th Anniversary of the Kerr solution of the Einstein’s equations, June 3-19, 2013

The first URCA meeting on Relativistic Astrophysics - ICRANet Rio - 24-29 June 2013 – Rio de Janeiro

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.