

César Augusto Zen Vasconcellos

Position:

Capes Sabbatical Professor to Europe/Asia

At International Center for Relativistic Astrophysics Network – ICRANet

Visit from: June 16, 2014 to May 15, 2014



Institution:

Universidade Federal do Rio Grande do Sul – UFRGS

Publications:

-) 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
-) J. Rueda, R. Ruffini, M. Razeira, A. Mesquita, R.O. Gomes, C.A.Z. Vasconcellos, D. Hadjimichef, “The Role of Many-Body Correlations and the Direct Baryon Urca Process in the Cooling of Neutron Stars”, in preparation.
-) A. Mesquita, M. Razeira, R. Ruffini, J.A. Rueda, D. Hadjimichef, R.O. Gomes, C.A. Zen Vasconcellos. “An Effective Field Theory for Neutron Stars with Many-Body Forces, Strong Sigma-Hyperon Repulsion and Kaon Condensation, in preparation.
-)R. Camargo, J. A. Rueda, R. Ruffini, C. A. Z. Vasconcellos; “Rapidly rotating neutron stars with strong sigma-hyperon repulsion”; in preparation.
-)R. Camargo, J. A. Rueda, R. Ruffini, C. A. Z. Vasconcellos; “The effects of hyperons on the structure of rapidly rotating neutron stars”; in preparation.
-) C.A. Zen Vasconcellos, R. Ruffini, J. Rueda, M. Razeira, A. Mesquita, "A Relativistic Effective Field Theory for Neutron Stars, Pulsars and Magnetars"; in preparation.

Meetings, conferences, seminars, schools:

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

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

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.