

# Rangel Lemos, Luis Juracy

## *Position:*

IRAP PhD – Fifth Cycle 2006-2009

Capes Sabbatical Professor to Europe/Asia at International Center for Relativistic Astrophysics Network – ICRANet



## List of visits:

From April 3, 2014 to May 3, 2014

From October 15, 2014 to November 15, 2014

## *Institution*

Fundação Universidade Federal do Tocantins

## *Publications:*

-) L. Izzo, M. G. Bernardini, C. L. Bianco, L. Caito, B. Patricelli, L. J. Rangel Lemos, R. Ruffini; "On GRB 080916C and GRB 090902B observed by the Fermi satellite"; AIP Conf. Proc. 1279, 343 (2010).

<http://adsabs.harvard.edu/abs/2010AIPC.1279..343I>

-) L. J. Rangel Lemos, S. Casanova, S. R. Kelner, R. Ruffini; "Fermi's approach to the study of hadronic interactions"; AIP Conf. Proc. 966, 325(2008).

<http://adsabs.harvard.edu/abs/2008AIPC..966..325R>

-) L. J. Rangel Lemos, C. L. Bianco, H. J. Mosquera Cuesta, J. A. Rueda, R. Ruffini; "Luminosity function of BATSE GRBs whose prompt emission is not dominated by the P-GRB"; Proceedings of the 25th Texas Symposium on Relativistic Astrophysics. December 6-10, 2010.

<http://adsabs.harvard.edu/abs/2010tsra.confE.204R>

-) M. Constancio Jr, O. D. Aguiar, G. McCurrach Keiser, M. Malheiro, L. J. Rangel Lemos; "Do coupled nested pendula have the same Eigen frequencies as pendula in cascade?"; JINST (issn: 1748-0221), vol 9, T08006, 2014. <http://adsabs.harvard.edu/abs/2014JInst...9.8006C>, IF: 1.310

-) L. J. Rangel Lemos, E. Sales Silva; "Astrofísica Relativística, um panorama sobre os eventos mais energéticos do universo"; proceeding of the "I Semana Acadêmica da Física da UFT/Araguaína"; chapter 10; Nagô Editora e Livraria Ltda - Palmas-TO-Brazil; 2015; in press. ISBN: 978-85-64147-36-2

-) L. J. Rangel Lemos, C. L. Bianco, R. Ruffini, M. Malheiro; "Luminosity function of GRBs"; Compact Stars in the QCD Phase Diagram III (CSQCD III); published in 09/2013. Preprint: arxiv/astro-ph: 1309.3360

<http://adsabs.harvard.edu/abs/2013arXiv1309.3360R>,

- ) L. J. Rangel Lemos, C. L. Bianco, R. Ruffini; "Luminosity function statistics applied in the fireshell model"; in preparation; it will be submitted to the ApJ; 2015.
- ) L. J. Rangel Lemos, M. Malheiro; "Equation of motion of the 'n' coupled pendula"; in preparation; it will be submitted to the Applied Physics Letters; 2015.
- ) L. J. Rangel Lemos, C. L. Bianco, R. Ruffini; Applying the luminosity function statistics in the fireshell model; Proc. of the 2nd César Letter meeting, "Supernovae, Neutron Stars, Black Holes", 2015, Niterói - Rio De Janeiro, April 13-18 João Pessoa, April 21, Recife - Fortaleza, April 22

*Meetings, conferences, seminars, schools:*

- 2011. The Third Galileo-Xu Guangqi meeting. October 11-15, Beijing (China)
- The 2<sup>nd</sup> Galileo - Xu Guangqi meeting, July 12-18, 2010. Hanbury Botanic Gardens Ventimiglia ( Italy) and Villa Ratti, Nice, France.
- The Shocking Universe - Gamma Ray Burst and High Energy Shock, 2009, September 14-18, San Servolo, Venice, Italy.
- XII Marcel Grossmann Meeting, 2009, July 12-18, Paris, France.
- 6th Italian-Sino Workshop in Relativistic Astrophysics, 2009, June 29 - July 1, Pescara, Italy.
- X Italian School of Astrophysics - 'Probing Stellar Populations out to the Distant Universe', 2008, September 7-19, Cefalù Sicily, Italy.
- 2008 Nanjing GRB Conference, 2008, June 23-27, Nanjing, Chine.
- XIII Brazilian School of Cosmology and Gravitation, 2008, July 25-August 2, Mangaratiba, Rio de Janeiro, Brazil.
- III Stueckelberg Workshop on Relativistic Field Theories, 2008, July 8-18, Pescara, Italy.
- II Kolkata Conference on 'Observational Evidence for Black Holes in the Universe', 2008, February 10-16, Kolkata, India.
- September 2007: IX National School of Astrophysics, Venice-Italy.
- July 2007: IV Italian-Sino Workshop on Relativistic Astrophysics, Pescara-Italy.
- June 2007: X Italian-Korean Symposium on Relativistic Astrophysics, Pescara-Italy.
- February 2007: Cesare Lattes Meeting on GRB's, Black Holes and Supernovae, Rio de Janeiro- RJ Brazil.

- November 2006: Courses and Workshops on Gravitational Waves, Relativistic Astrophysics and Cosmology - Emile Borel Center/IHP, Paris-France.

- 2<sup>nd</sup> César Lattes Meeting “Supernovae, Neutron Stars, Black Holes”, 2015, Niterói - Rio De Janeiro, April 13-18 João Pessoa, April 21, Recife - Fortaleza, April 22

-) I Encontro de Física do Entorno do Bico do Papagaio, Araguaína-TO-Brazil, september 1-7, 2014. I was the chair of the Organizing Committee.