

Xue She-Sheng

Position: ICRA Net Faculty Staff

Period covered: 2009



I Scientific Work

“On the gravitational and electro-dynamical stability of nuclear matter core”, submitted to Phys. Rev. C (2009),

“Electron-positron production in non-uniform electric fields”, Phys. Rev. D 78 (2008) 02501

“Dyadosphere formed in gravitational collapse”, Review article, AIP Conf. Proc. 1059 (2008) 72.

“Electron-positron pairs in physics and astrophysics, from heavy nuclei to black holes”, Phys. Rep. (2009)

“The phase structure of Einstein-Cartan theory”, Phys. Lett. B665 (2008) 54

“Electron-positron pair production in a macroscopic object Q/M ”, submitted to Phys. Lett. B

“Gravitational instanton and cosmological term”, Int. Jour. Of Mod. Phys. A24, (2009) 3865.

“Gravitational, electroweak and strong interactions of massive nuclear density cores”, Proceedings Marcel Grossmann meeting (MG12), Paris, World scientific (2009).

II Conferences and educational activities

Conferences and Other External Scientific Work

Presenting talks and posters in international ICRA Net meetings:

MG12 Marcel Grossmann meeting (Paris)

1st Xu Guangqi meeting (China)

11th Italian-Korean and 6th Italian-Chinese meetings (Korea and Pescara)

3rd Stueckelberg Workshops (Pescara)

5th Italian-Chinese Workshops on Relativistic Astrophysics (Taiwan)

APS April meeting, April 12-15, 2008, Saint Louis, USA

And international Conferences:

"Swift and GRBs: *The Shocking Universe*", in Venice (Italy), Sept 5-9, 2008

Work With the research group of Gamma Ray Bursts :

Maria Grazia Bernardini, Carlo Luciano Bianco, Letizia Caito, G. Vereshchagin, B. Patricelli, G. De Barros, Juracy Luis, L.J. Rangel Lemos

Diploma thesis supervision

IRAP PhD. Faculty, thesis supervision and reading and examination

Jorge Rueda and Juracy Luis, L.J. Rangel Lemos,

Other Teaching Duties

Work With Postdocs

M. Rotondo

Work With the Director R. Ruffini and External Professors

V.S. Popov, H. Kleinert, Pascal Chardonnet

III Service activities

Within ICRAANet

Participating organization of ICRAANet meetings: the 11th Italian-Korean meeting and 5th and 6th Italian-Chinese meeting and Stuekelberg Workshops on Cosmology and Relativistic Astrophysics

Editor of two conference proceedings '5th Italian-Chinese meeting on Cosmology and Relativistic Astrophysics', published by American Institute of Physics, and 1st galileo –Xu Guangqi meeting.

Participating organization of 1st Galileo - Xu Guangqi Meeting, October 26-30, 2009 Shanghai - CHINA

Participating organization of ICRAANet Seminars

Outside ICRAANet

External Professor of Chinese Academy and University

2009 List of Publications

Remo Ruffini, Gregory Vereshchagin , She-Sheng Xue , ``Electron-positron pairs in physics and astrophysics from heavy nuclei to black hole", Phys. Report (in press) 2009

She-Sheng Xue, ``Gravitational Instanton and Cosmological Term", International Journal of Modern physics A, vol 24 (2009) 3865.