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Some recent scientific publications

The self-consistent general relativistic solution for a system of degenerate neutrons, protons and electrons in beta-equilibrium, Rotondo, Michael, Jorge A. Rueda, Remo Ruffini, and She-Sheng Xue. Physics Letters B, Volume 701, Issue 5, p. 667-671 (2011).

The relativistic Feynman-Metropolis-Teller theory for white-dwarfs in general relativity, M. Rotondo, Jorge A. Rueda, Remo Ruffini, and She-Sheng Xue. To be published by Phys. Rev. D.

On the relativistic and electro-dynamical stability of massive nuclear density cores, V. S. Popov, M. Rotondo, R. Ruffini and S.-S. Xue, submitted to Phys. Rev. C, (2011); arXiv:astroph/0903.3727

On the relativistic Thomas-Fermi treatment of compressed atoms and compressed nuclear matter cores of stellar dimensions, M. Rotondo, Jorge A. Rueda, Remo Ruffini, and She-Sheng Xue, Phys. Rev. C 83 (2011) 045805.

The Klein first integrals in an equilibrium system with electromagnetic, weak, strong and gravitational interactions, Jorge A. Rueda, Remo Ruffini, and She-Sheng Xue, Nuclear Physics A 872 (2011) 286

On the equilibrium of self-gravitating neutrons, protons and electrons in β-equilibrium, M. Rotondo, Jorge A. Rueda, Remo Ruffini, and She-Sheng Xue. Phys. Rev. D84 (2011) 084007.

Electron-positron pairs production in a macroscopic charged core
Remo Ruffini, and She-Sheng Xue , Phys. Lett. B 696 (2011) 416-412.

Electron-positron pairs in physics and astrophysics, from heavy nuclei to black holes
Remo Ruffini, Gregory Vereshchagin, She-She Xue , Phys. Rep. Vol 487 (2010) 1,

Electron-positron pair oscillation in spatially inhomogeneous electric field and radiation
Wen-Biao Han, Remo Ruffini, and She-Sheng Xue
Phys. Lett. B691 (2010) 99.

Detailed Discussions and Calculations of Quantum Regge Calculus of Einstein-Cartan theory
She-Sheng Xue , Phys. Rev. D82 (2010) 064039.

Neutrino oscillations in nuclear media
Iman Motie and She-Sheng Xue, submitted to journal of Physics G: Nuclear and Particle Physics.

Euler-Heisenberg Lagrangian and photon circular polarization
Iman Motie and She-Sheng Xue, European Physics Letter (EPL) 100 (2012) 17006

On the self-consistent equilibrium equations of neutron stars,
Jorge A. Rueda, Remo Ruffini, and She-Sheng Xue. Submitted to Phys. Rev Lett.

Neutrinos and photons travel in a discrete space-time
She-Sheng Xue , Phys. Lett. B 706 (2011) 213.

The phase and critical point of quantum Einstein–Cartan gravity
She-Sheng Xue , Phys. Lett. B 711 (2012) 404.

High Energy Neutrino Oscillation at the Presence of the Lorentz Invariance Violation
Motie Iman, She-Sheng Xue**, Int. J. Mod. Phys. A 27 (2012) 1250104.

Electron and positron pair production in gravitational collapse
Wen-Biao Han, Remo Ruffini, and She-Sheng Xue, Phys. Rev. D86 (2012) 084004.

Neutron star equilibrium configurations within a fully relativistic theory with strong, weak, electromagnetic, and gravitational interactions
R. Belvedere, D. Pugliese, J. Rueda, R. Ruffini, and S.-S. Xue, Nucl. Phys. A 883 (2012) 1.

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