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Some recent scientific publications


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.


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


Electron-positron pairs production in a macroscopic charged core

Electron-positron pairs in physics and astrophysics, from heavy nuclei to black holes

Electron-positron pair oscillation in spatially inhomogeneous electric field and radiation
Wen-Biao Han, Remo Ruffini, and She-Sheng Xue

Detailed Discussions and Calculations of Quantum Regge Calculus of Einstein-Cartan theory

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,
Neutrinos and photons travel in a discrete space-time

The phase and critical point of quantum Einstein–Cartan gravity

High Energy Neutrino Oscillation at the Presence of the Lorentz Invariance Violation

Electron and positron pair production in gravitational collapse

Neutron star equilibrium configurations within a fully relativistic theory with strong, weak, electromagnetic, and gravitational interactions

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