

Table of Contents

Volume 9 Number 7

July 2021

Preliminary Studies on ^{222}Rn Concentration in Groundwater of Yaounde, Cameroon

S. M. Mbembe, B. A. Mbembe, J. Maya, L. L. Mohamadou, M. Boubakari.....1423

Empirical Neutron Cross Section Formulae for (n, p) and (n, d) Reactions of He-3 Target

A. M. Alramady.....1434

**Analysis of Japan and World Records in the 100 m Dash
Using Extreme Value Theory**

F. Maruyama.....1442

**Positive Periodic Solutions of Nonautonomous Delayed
Predator-Prey System with Pulse Controls**

B. Wang, S. Q. Shi, P. Luo.....1452

Parametric Stabilization of the Ring and Linear Neural Network with Two Delays

D. X. Zhao, D. X. Fan, Y. P. Guo.....1468

Wave Interactions for the Suliciu Relaxation System

B. Z. Liu, Y. J. Liu.....1483

**Experimental Design to Study the Effects of Low Intensity
Magnetic on the Duality of Electron**

S. Muhammad, M. Tariq.....1497

Asymptotic Stability of Singular Solution for Camassa-Holm Equation

Y. T. Gao.....1505

Smooth Periodic Solutions with Equal Period for KP-MEW (2,2) Equation

M. Z. Wei, L. P. He.....1515

**Monte Carlo Simulation Study of Hot-Particle Detection in
Voluminous Samples by Gamma Spectrometry**

L. T. Chu, A. G. Burn, C. J. Bradt, T. M. Semkow.....1522

Energy of the Gravitational Field as an Equivalent of the Dark Energy of the Universe

V. Nastasenko.....1541

The First Principle Study of β -CuAgSe Subcells

X. L. Zhu, C. L. Shi, Z. P. Shao.....1549

Non-Rotating Black Holes, Dark Matter and Dark Energy in a Unifying Theory

A. Holdefer.....1560

Fuzzy Logic in the Quantum Mechanical Worldview; Related to Zadeh, Wittgenstein, Moore, Saussure, Quine, Lewis Carroll, etc.

S. Ishikawa.....1583

Soret and Dufour Effects on Unsteady Free Convection Fluid Flow in the Presence of Hall Current and Heat Flux

A. Quader, Md. M. Alam.....1611

On the Regression-Tensor Analysis of the Hardening Process of Metal Coatings

R. V. Anatolievich, A. S. Viktorovich, D. A. Vasilyevich, G. I. Alecseevich.....1639

Management and Control of a DC Bus Powered by Renewable Energies

M. M. Diop, I. Gueye, A. Kebé, M. Diop.....1652

A New Unified Stabilized Mixed Finite Element Method of the Stokes-Darcy Coupled Problem: Isotropic Discretization

H. K. Wilfrid.....1673

Minimal Time of Null Controllability for the 1D Heat Equation by a Strategic Zone Profile

C. Seck, M. L. L. Ane.....1707

An “ab initio” Model for Quantum Theory and Relativity

S. Tosto.....1718

A New Insight into the Observations and Analysis of Type Ia Supernovae

Q. H. Peng, J. J. Liu.....1808