

## TABLE OF CONTENTS

Volume 3 Number 3

September 2013

<b>What Is the Missing Dark Energy in a Nutshell and the Hawking-Hartle Quantum Wave Collapse</b> M. S. El Naschie.....	205
<b>Solar Activity during the Rising Phase of Solar Cycle 24</b> A. Sharma, S. R. Verma.....	212
<b>Computing Differentially Rotating Neutron Stars Obeying Realistic Equations of State by Using Hartle’s Perturbation Method</b> A. Katelouzos, V. Geroyannis.....	217
<b>Antigravity—Its Manifestations and Origin</b> M. Křížek, L. Somer.....	227
<b>Nexus: A Quantum Theory of Space-Time, Gravity and the Quantum Vacuum</b> S. Marongwe.....	236
<b>Window Effect in the Power Spectrum Analysis of a Galaxy Redshift Survey</b> T. Sato, G. Hütsi, G. Nakamura, K. Yamamoto.....	243
<b>Mass as the Fifth Dimension of the Universe</b> B. Nikouravan, J. J. Rawal.....	257
<b>Are Uranus &amp; Neptune Responsible for Solar Grand Minima and Solar Cycle Modulation?</b> G. J. Sharp.....	260
<b>Study of Duct Characteristics Deduced from Low Latitude Ground Observations of Day-Time Whistler at Jammu</b> M. Altaf, M. M. Ahmad.....	274
<b>The Effect of Radiogenic Heating on the Amino Acid Content of an Early Cometary Body</b> C. Canepa.....	278
<b>The Cherenkov Radiation in the Galaxy’s Halo of Dark Matter</b> Leonid M. Chechin.....	285
<b>Analysis of the Effect of Space Radiations on the Nematode, <i>Caenorhabditis elegans</i>, through the Simulated Space Radiation</b> S. Yi, S. Kim, J. Song.....	291
<b>Cosmology Should Directly Use the Doppler’s Formula to Calculate the Red Shift of Ia Supernova</b> X. C. Mei, P. Yu.....	303
<b>Dark Energy Explained via the Hawking-Hartle Quantum Wave and the Topology of Cosmic Crystallography</b> M. S. El Naschie, A. Helal.....	318
<b>Influence of Supernova SN Ia Rate and the Early Star Formation Rate on the Galactic Chemical Evolution</b> S. Sahijpal.....	344
<b>Renormalized Coordinate Stretching: A Generalization of Shoot and Fit with Application to Stellar Structure</b> P. D. Usher.....	353
<b>Thermonuclear Reaction as the Main Source of the Earth’s Energy</b> E. I. Terez, I. E. Terez.....	362

---

The figure on the front cover is from the article published in International Journal of Astronomy and Astrophysics, 2013, Vol. 3, No. 3, pp. 260-273 by Geoff J. Sharp.