

## TABLE OF CONTENTS

**Volume 2      Number 3**

**September 2012**

### **On a New Method of N-Body Simulations**

E. Vilkoviskij.....113

### **Numerical Investigations of a New N-Body Simulation Method**

E. Vilkoviskij.....119

### **Convergent Calculations That Dark Solutions Are Reflective of Mass-Energy yet to Occur**

M. A. Persinger.....125

### **Dynamic Problems of the Planets and Asteroids, and Their Discussion**

J. J. Smulsky, Y. J. Smulsky.....129

### **A Magnetic Model for Low/Hard States Associated with Jets in Black Hole X-Ray Binaries**

J. Z. Wang, D. X. Wang, Z. M. Gan, C. Y. Huang.....156

### **Examining the M67 Classification as an Open Cluster**

S. Naim, E. Griv.....167

### **Kruskal Dynamics for Radial Geodesics**

A. Mitra.....174

### **Broken Symmetries in Spacetime with Torsion and Galactic Magnetic Fields without Dynamo Amplification**

L. C. Garcia de Andrade.....180

### **The Formula to Calculate the Red Shift-Distance Relation of Ia Supernova in Cosmology Has Essential Mistakes**

X. C. Mei, P. Yu.....183

---

The figure on the front cover is from the article published in *International Journal of Astronomy and Astrophysics*, 2012, Vol. 2, No. 3, pp. 167-173 by Shimmon Naim and Evgeny Griv.