

# Table of Contents

Volume 4    Number 3

September 2014

## Inverse Transformation of Elliptical Relative State Transition Matrix

J. F. Yin, Y. R. Rao, C. Han.....419

## Bianchi Type-V Cosmological Model with Linear Equation of State in Brans-Dicke Theory of Gravitation

S. Kandalkar, S. Samdurkar.....429

## Total Solar Flux Intensity at 11.2 GHz as an Indicator of Solar Activity and Cyclicity

J. Kallunki, M. Uunila.....437

## Period Correction and Evolutionary Status of the MACHO Eclipsing Binary System 47.2135.29

N. Riazi, M. Rezvani.....445

## Quasi-Radial Modes of Pulsating Neutron Stars: Numerical Results for General-Relativistic Rigidly Rotating Polytropic Models

V. Geroyannis, E. Tzelati.....453

## Gravitationally Quantized Orbits in the Solar System: Computations Based on the Global Polytropic Model

V. Geroyannis, F. Valvi, T. Dallas.....464

## Optical Luminosity Function of the QSOs Observed with the Sloan Digital Sky Survey Data Release Seven (SDSS DR7)

S. A. Singh, I. A. Meitei, K. Y. Singh.....474

## Warm C<sub>2</sub>H<sub>2</sub> toward NGC 7538 IRS9: Grain Surface Origin

S. D. Doty, S. L. Doty, J. Cochran, J. Lacy, J. Barentine, R. Field.....479

## Galaxy Formation and Chemical Evolution

S. Sahijpal.....491

## TeV Blazars as the Sources of Ultra High Energy Cosmic Rays

B. K. Zhang, X. Y. Zhao, Z. Cao.....499

## Study Chromaticity of Solar Spectrum

N. N. Mondal.....510

## Inferring the Structure of the Pre-Protostellar Core L1498

S. L. Doty, S. D. Doty, M. J. Perkett.....519

**Analytical Third Order Solution for Coupling Effects of Earth Oblateness and Direct Solar Radiation Pressure on the Motion of Artificial Satellites**

H. H. Selim.....530

**On Bianchi Type III String Cloud Universe Containing Strange Quark Matter**

K. P. Singh, K. M. Singh.....544