

PHYSICAL REVIEW D

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 0556-2821)

PERIODICALS

Postmaster send address changes to:
American Institute of Physics
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 64, NUMBER 6

CONTENTS

15 SEPTEMBER 2001

RAPID COMMUNICATIONS

- Variation of the gauge couplings during inflation (*5 pages*) 061301(R)
Massimo Giovannini
- Black hole excision for dynamic black holes (*5 pages*) 061501(R)
Miguel Alcubierre, Bernd Brügmann, Denis Pollney, Edward Seidel, and Ryoji Takahashi

ARTICLES

- Detection of a scalar stochastic background of gravitational waves (*19 pages*) 062001
Danilo Babusci, Luca Baiotti, Francesco Fucito, and Alessandro Nagar
- Estimating stochastic gravitational wave backgrounds with the Sagnac calibration (*10 pages*) 062002
Craig J. Hogan and Peter L. Bender
- How to measure CMB polarization power spectra without losing information (*15 pages*) 063001
Max Tegmark and Angelica de Oliveira-Costa
- New connection between central engine weak physics and the dynamics of gamma-ray burst fireballs
(*7 pages*) 063002
Jason Pruet, Kevork Abazajian, and George M. Fuller
- Cosmic antifriction and accelerated expansion (*13 pages*) 063501
Winfried Zimdahl, Dominik J. Schwarz, Alexander B. Balakin, and Diego Pavón
- Natural double inflation in supergravity (*6 pages*) 063502
Masahide Yamaguchi
- Density fluctuations and primordial black hole formation in natural double inflation in supergravity
(*10 pages*) 063503
Masahide Yamaguchi
- Dynamical instabilities of the Randall-Sundrum model (*9 pages*) 063504
Timon Boehm, Ruth Durrer, and Carsten van de Bruck
- Supernova constraints on spatial variations of the vacuum energy density (*6 pages*) 063505
P. P. Avelino, J. P. M. de Carvalho, and C. J. A. P. Martins
- Isotropy and stability of the brane (*8 pages*) 063506
M. G. Santos, F. Vernizzi, and P. G. Ferreira
- Dilatonic domain walls and curved intersecting branes (*6 pages*) 063507
James E. Lidsey
- Dark matter in Draco and the Local Group: Implications for direct detection experiments (*12 pages*) 063508
Ben Moore, Carlos Calcáneo-Roldán, Joachim Stadel, Tom Quinn, George Lake, Sebastiano Ghigna,
and Fabio Governato
- Field theory models for variable cosmological constant (*8 pages*) 063509
Gia Dvali and Alexander Vilenkin

