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 63, NUMBER 4 *CONTENTS* **15 FEBRUARY 2001**

RAPID COMMUNICATIONS

Inflation on a single brane: Exact solutions *(5 pages)* . . . . . 041301(R)
Rachael M. Hawkins and James E. Lidsey
Spin foam model for Lorentzian general relativity *(5 pages)* . . . . . 041501(R)
Alejandro Perez and Carlo Rovelli
Generally covariant model of a scalar field with high frequency dispersion and the cosmological horizon problem *(4 pages)* . . . . . 041502(R)
Ted Jacobson and David Mattingly
Quantum metric fluctuations and Hawking radiation *(4 pages)* . . . . . 041503(R)
R. Parentani

ARTICLES

Cosmological parameters from the first results of Boomerang *(8 pages)* 042001
A. E. Lange, P. A. R. Ade, J. J. Bock, J. R. Bond, J. Borrill, A. Boscaleri, K. Coble, B. P. Crill, P. de Bernardis, P. Farese, P. Ferreira, K. Ganga, M. Giacometti, E. Hivon, V. V. Hristov, A. Iacoangeli, A. H. Jaffe, L. Martinis, S. Masi, P. D. Mauskopf, A. Melchiorri, T. Montroy, C. B. Netterfield, E. Pascale, F. Piacentini, D. Pogosyan, S. Prunet, S. Rao, G. Romeo, J. E. Ruhl, F. Scaramuzzi, and D. Sforna
Efficient filter for detecting gravitational wave bursts in interferometric detectors *(9 pages)* 042002
Thierry Pradier, Nicolas Arnaud, Marie-Anne Bizouard, Fabien Cavalier, Michel Davier, and Patrice Hello
Excess power statistic for detection of burst sources of gravitational radiation *(20 pages)* 042003
Warren G. Anderson, Patrick R. Brady, Jolien D. E. Creighton, and Éanna É. Flanagan
Adaptive filtering techniques for gravitational wave interferometric data: Removing long-term sinusoidal disturbances and oscillatory transients *(15 pages)* 042004
E. Chassande-Mottin and S. V. Dhurandhar
How to fool cosmic microwave background parameter estimation *(6 pages)* 043001
William H. Kinney
General-relativistic theory of elastic deformable astronomical bodies *(11 pages)* 043002
Chongming Xu, Xuejun Wu, and Michael Soffel
Neutrinos as the source of ultrahigh energy cosmic rays in extra dimensions *(5 pages)* 043003
Ashok Goyal, Abhinav Gupta, and Namit Mahajan
Testing standard and degenerate big bang nucleosynthesis with BOOMERANG and MAXIMA-1 *(4 pages)* . . 043004
S. Esposito, G. Mangano, A. Melchiorri, G. Miele, and O. Pisanti
Weakly interacting massive particle annual modulation signal and nonstandard halo models *(6 pages)* 043005
Anne M. Green

Copyright 2001 by The American Physical Society

(Continued)

0556-2821(20010215)63:4;1-D