

CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 56, NUMBER 6

15 SEPTEMBER 1997

Axiomatic approach to electromagnetic and gravitational radiation reaction of particles in curved spacetime	3381
Theodore C. Quinn and Robert M. Wald	
Dynamics of perturbations of rotating black holes	3395
William Krivan, Pablo Laguna, Philippos Papadopoulos, and Nils Andersson	
First order hyperbolic formalism for numerical relativity	3405
C. Bona, J. Massó, E. Seidel, and J. Stela	
Post-Newtonian models of binary neutron stars	3416
James C. Lombardi, Jr., Frederic A. Rasio, and Stuart L. Shapiro	
Preheating-gravitational-wave correspondence	3439
Bruce Bassett	
Bubble wall perturbations coupled with gravitational waves	3446
Akihiro Ishibashi and Hideki Ishihara	
Internal structure of Einstein-Yang-Mills black holes	3459
E. E. Donets, D. V. Gal'tsov, and M. Yu. Zotov	
Black holes in the Brans-Dicke-Maxwell theory	3466
Rong-Gen Cai and Y. S. Myung	
Exact self-consistent gravitational shock wave in semiclassical gravity	3471
Carlos O. Lousto and Francisco D. Mazzitelli	
Boson stars in general scalar-tensor gravitation: Equilibrium configurations	3478
Diego F. Torres	
Total intrinsic spin for plane gravity waves	3485
Donald E. Neville	
“Sum over surfaces” form of loop quantum gravity	3490
Michael P. Reisenberger and Carlo Rovelli	
Black hole superpartners and fixed scalars	3509
Renata Kallosh and Andrei Linde	
Covariant quantization of D -branes	3515
Renata Kallosh	
Baby universes and energy (non)conservation in $(1+1)$ -dimensional dilaton gravity	3523
V. A. Rubakov	
Radiation from a uniformly accelerated harmonic oscillator	3537
Hyeong-Chan Kim and Jae Kwan Kim	
Gravitational theory without the cosmological constant problem, symmetries of space-filling branes, and higher dimensions	3548
E. I. Guendelman and A. B. Kaganovich	
Effective superstring spectral action	3555
Ali H. Chamseddine	
Quantum correction to the thermodynamical entropy of a black hole	3568
A. Ghosh and P. Mitra	
Semiclassical effects in black hole interiors	3571
William A. Hiscock, Shane L. Larson, and Paul R. Anderson	
Effectiveness of D -branes in the description of near-extremal black holes	3582
Sumit R. Das	
Black holes as fundamental strings: Comparing the absorption of scalars	3591
Roberto Emparan	
Thermodynamics of $(3+1)$ -dimensional black holes with toroidal or higher genus horizons	3600
Dieter R. Brill, Jorma Louko, and Peter Peldán	
Effective scalar field theory and reduction of couplings	3611
Mario Atance and José Luis Cortés	

(Continued)