

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 65, NUMBER 1

CONTENTS

1 JANUARY 2002

Physical Review D Editorial Policies and Practices	iii
Physical Review D Information for Contributors	vii
Guidelines for Estimating Length for Physical Review D	x

ARTICLES

Protonium annihilation into $\pi^0\pi^0$ at rest in a liquid hydrogen target (11 pages)	012001
M. Bargiotti <i>et al.</i> (OBELIX Collaboration)	
First observation of $\bar{B}^0 \rightarrow D^{*0} \pi^+ \pi^+ \pi^- \pi^-$ decays (5 pages)	012002
K. W. Edwards <i>et al.</i> (CLEO Collaboration)	
Cross section and heavy quark composition of $\gamma + \mu$ events produced in $p\bar{p}$ collisions (7 pages)	012003
T. Affolder <i>et al.</i> (CDF Collaboration)	
Lepton flavor violating $Z \rightarrow l_1^+ l_2^-$ decay in the general two Higgs doublet model (7 pages)	013001
E. O. Iltan and I. Turan	
Seesaw mechanism in three flavors (8 pages)	013002
Haijun Pan and G. Cheng	
Two-loop polarization contributions to radiative-recoil corrections to hyperfine splitting in muonium (8 pages)	013003
Michael I. Eides, Howard Grotch, and Valery A. Shelyuto	
Implications of CP asymmetry limits for $B \rightarrow K\pi$ and $B \rightarrow \pi\pi$ (8 pages)	013004
Michael Gronau and Jonathan L. Rosner	
Bilepton gauge boson contribution to the static electromagnetic properties of the W boson in the minimal 3-3-1 model (13 pages)	013005
G. Tavares-Velasco and J. J. Toscano	
Radiative correction to the transferred polarization in elastic electron-proton scattering (11 pages)	013006
A. V. Afanasev, I. Akushevich, and N. P. Merenkov	
Neutrino interactions in a magnetized medium (7 pages)	013007
Kaushik Bhattacharya, Avijit K. Ganguly, and Sushan Konar	
Z decay into two massless gauge bosons in a magnetic field (6 pages)	013008
Todd M. Tinsley	
Fourth standard model family enhancement to the golden mode at the upgraded Fermilab Tevatron (3 pages)	013009
O. Çakır and S. Sultansoy	
Probing neutrino nonstandard interactions with atmospheric neutrino data (11 pages)	013010
N. Fornengo, M. Maltoni, R. Tomàs Bayo, and J. W. F. Valle	
U(2)-like flavor symmetries and approximate bimaximal neutrino mixing (9 pages)	013011
Alfredo Aranda, Christopher D. Carone, and Patrick Meade	



CONTENTS - Continued

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 65, NUMBER 1

1 JANUARY 2002

Energy spectra of reactor neutrinos at KamLAND (6 pages)	013012
Hitoshi Murayama and Aaron Pierce	
Numerical study of the gluon propagator and confinement scenario in the minimal Coulomb gauge (11 pages)	014001
Attilio Cucchieri and Daniel Zwanziger	
Renormalization-group calculation of the color-Coulomb potential (11 pages)	014002
Attilio Cucchieri and Daniel Zwanziger	
Asymmetry of the strange sea in nucleons (6 pages)	014003
Xue-Qian Li, Xiao-Bing Zhang, and Bo-Qiang Ma	
Gluon radiation in top quark production and decay at e^+e^- colliders (8 pages)	014004
Cosmin Macesanu and Lynne H. Orr	
Heavy-quarkonium hadron cross section in QCD at leading twist (12 pages)	014005
François Arleo, Pol-Bernard Gossiaux, Thierry Gousset, and Jörg Aichelin	
The process $\gamma_L^* + q \rightarrow (q\bar{q}g) + q$: Real corrections to the virtual photon impact factor (10 pages)	014006
J. Bartels, S. Gieseke, and A. Kyrleis	
Leading-power contributions to $B \rightarrow \pi, \rho$ transition form factors (14 pages)	014007
T. Kurimoto, Hsiang-nan Li, and A. I. Sanda	
Top-quark spin correlation at linear colliders with anomalous couplings (12 pages)	014008
Z.-H. Lin, T. Han, T. Huang, J.-X. Wang, and X. Zhang	
Higher twist and transverse momentum dependent parton distributions: A light-front Hamiltonian approach (8 pages)	014009
R. Kundu and A. Metz	
T -odd polarization observables in the photoproduction of charmed particles near threshold (6 pages)	014010
Michail P. Rekalo and Egle Tomasi-Gustafsson	
Multivariate fitting and the error matrix in global analysis of data (7 pages)	014011
J. Pumplin, D. R. Stump, and W. K. Tung	
Uncertainties of predictions from parton distribution functions. I. The Lagrange multiplier method (17 pages)	014012
D. Stump, J. Pumplin, R. Brock, D. Casey, J. Huston, J. Kalk, H. L. Lai, and W. K. Tung	
Uncertainties of predictions from parton distribution functions. II. The Hessian method (17 pages)	014013
J. Pumplin, D. Stump, R. Brock, D. Casey, J. Huston, J. Kalk, H. L. Lai, and W. K. Tung	
Threshold $t\bar{t}$ cross section at next-to-next-to-leading logarithmic order (19 pages)	014014
A. H. Hoang, A. V. Manohar, I. W. Stewart, and T. Teubner	
Bounds in proton-proton elastic scattering at low momentum transfer (10 pages)	014015
A. T. Bates and N. H. Buttmore	
Strange form factors in the context of SAMPLE, HAPPEX, and A4 experiments (6 pages)	014016
Antônio Silva, Hyun-Chul Kim, and Klaus Goeke	
Decays of the meson B_c to a P -wave charmonium state χ_c or h_c (16 pages)	014017
Chao-Hsi Chang, Yu-Qi Chen, Guo-Li Wang, and Hong-Shi Zong	
Self-consistent parametrization of the two-flavor isotropic color-superconducting ground state (9 pages)	014018
M. Buballa, J. Hošek, and M. Oertel	
Comprehensive approach to structure functions (12 pages)	014019
A. Donnachie and H. G. Dosch	
One-loop QCD corrections to the thermal Wilson line model (9 pages)	014020
J. Wirstam	
Finite-width effects in top quark production at hadron colliders (13 pages)	014021
N. Kauer and D. Zeppenfeld	
Superfluid phases of quark matter. II. Phenomenology and sum rules (7 pages)	014022
Kei Iida and Gordon Baym	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 65, NUMBER 1

1 JANUARY 2002

Spectral function and excited states in lattice QCD with the maximum entropy method (16 pages)	014501
T. Yamazaki, S. Aoki, R. Burkhalter, M. Fukugita, S. Hashimoto, N. Ishizuka, Y. Iwasaki, K. Kanaya, T. Kaneko, Y. Kuramashi, M. Okawa, Y. Taniguchi, A. Ukawa, and T. Yoshié (CP-PACS Collaboration)	
Evidence against instanton dominance of topological charge fluctuations in QCD (12 pages)	014502
Ivan Horváth, Nathan Isgur, John McCune, and H. B. Thacker	
Density peaks and chiral peaks of fermion eigenmodes in QCD (3 pages)	014503
Thomas DeGrand and Anna Hasenfratz	
Chirality correlation within Dirac eigenvectors from domain wall fermions (10 pages)	014504
T. Blum, N. Christ, C. Cristian, C. Dawson, X. Liao, G. Liu, R. Mawhinney, L. Wu, and Y. Zhestkov	
Are topological charge fluctuations in QCD instanton dominated? (7 pages)	014505
Robert G. Edwards and Urs M. Heller	
Instanton dominance of topological charge fluctuations in QCD? (5 pages)	014506
I. Hip, Th. Lippert, H. Neff, K. Schilling, and W. Schroers	
Weakly coupled Gross-Neveu model with Wilson fermions (9 pages)	014507
R. Kenna and J. C. Sexton	
Flavor singlet mesons in QCD (6 pages)	014508
C. McNeile, C. Michael, and K. J. Sharkey (UKQCD Collaboration)	
Chiral loops and ghost states in the quenched scalar propagator (9 pages)	014509
W. Bardeen, A. Duncan, E. Eichten, N. Isgur, and H. Thacker	
Lattice results for the decay constant of heavy-light vector mesons (5 pages)	014510
Claude Bernard, Peter Williams, Saumen Datta, Steven Gottlieb, Carleton DeTar, Urs M. Heller, Craig McNeile, Kostas Orginos, Robert Sugar, and Doug Toussaint	
Critical hopping parameter in $O(a)$ improved lattice QCD (7 pages)	014511
H. Panagopoulos and Y. Proestos	
Charge and matter radial distributions of heavy-light mesons calculated on a lattice (15 pages)	014512
A. M. Green, J. Koponen, P. Pennanen, and C. Michael (UKQCD Collaboration)	
Attempts at explaining the NuTeV observation of dimuon events (9 pages)	015001
Athanasios Dedes, Herbi Dreiner, and Peter Richardson	
Solutions of the atmospheric, solar, and LSND neutrino anomalies from TeV scale quark-lepton unification (18 pages)	015002
T. L. Yoon and R. Foot	
4D constructions of supersymmetric extra dimensions and gaugino mediation (18 pages)	015003
Csaba Csáki, Joshua Erlich, Christophe Grojean, and Graham D. Kribs	
4D models of Scherk-Schwarz GUT breaking via deconstruction (10 pages)	015004
Csaba Csáki, Graham D. Kribs, and John Terning	
Signals for noncommutative QED in $e\gamma$ and $\gamma\gamma$ collisions (9 pages)	015005
Stephen Godfrey and M. A. Doncheski	
Yukawa hierarchy transfer from the superconformal sector and degenerate sfermion masses (6 pages)	015006
Tatsuo Kobayashi, Hiroaki Nakano, and Haruhiko Terao	
Charged Higgs boson production from supersymmetric particle cascade decays at the CERN LHC (15 pages)	015007
Aashish Datta, Abdelhak Djouadi, Monoranjan Guchait, and Yann Mambrini	
Stau lightest supersymmetric particle and comparison with $H^\pm$ phenomenology (8 pages)	015008
A. G. Akeroyd, Chun Liu, and Jeonghyeon Song	
Effective field theory dimensional regularization (11 pages)	016001
Dirk Lehmann and Gary Prézeau	
Spectral representation and QCD sum rules for the nucleon at finite temperature (10 pages)	016002
S. Mallik and Sourav Sarkar	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 65, NUMBER 1

1 JANUARY 2002

Radio detection of high energy particles: Coherence versus multiple scales (12 pages)	016003
Roman V. Buniy and John P. Ralston	
Freezing of QCD coupling affects the short distance static potential (9 pages)	016004
A. M. Badalian and D. S. Kuzmenko	
Solving the strong CP and the supersymmetry phase problems with parity symmetry (9 pages)	016005
K. S. Babu, B. Dutta, and R. N. Mohapatra	
Chiral multiplets versus parity doublets in highly excited baryons (6 pages)	016006
Thomas D. Cohen and Leonid Ya. Glozman	

BRIEF REPORTS

Constraints on heavy Z' couplings from $\Delta S=2$ $B^- \rightarrow K^- K^- \pi^+$ decay (3 pages)	017301
S. Fajfer and P. Singer	
Addendum to "Off-shell structure of the anomalous Z and γ self-couplings" (2 pages)	017302
G. J. Gounaris, J. Layssac, and F. M. Renard	
Study of semileptonic decays $B^\pm \rightarrow \eta^{(\prime)} l \nu$ (4 pages)	017501
C. S. Kim and Ya-Dong Yang	
Remarks on Δ radiative and Dalitz decays (2 pages)	017502
M. I. Krivoruchenko and Amand Faessler	
Impact of a light strange-beauty squark on B_s mixing and direct search (4 pages)	017701
Abdesslam Arhrib, Chun-Khiang Chua, and Wei-Shu Hou	
Cumulative Author Index	xi