

RAPID COMMUNICATIONS

Evidence for the decay $D^0 \rightarrow K^+ \pi^- \pi^+ \pi^-$ (5 pages)	111101(R)
S. A. Dytman <i>et al.</i> (CLEO Collaboration)	
Muon anomalous magnetic moment, two-Higgs-doublet model, and supersymmetry (5 pages)	111301(R)
Kingman Cheung, Chung-Hsien Chou, and Otto C. W. Kong	
Study of heavy-light mesons on the transverse lattice (5 pages)	111501(R)
Matthias Burkardt and Sudip K. Seal	

ARTICLES

Final results from the Palo Verde neutrino oscillation experiment (10 pages)	112001
F. Boehm, J. Busenitz, B. Cook, G. Gratta, H. Henrikson, J. Kornis, D. Lawrence, K. B. Lee, K. McKinny, L. Miller, V. Novikov, A. Piepke, B. Ritchie, D. Tracy, P. Vogel, Y-F. Wang, and J. Wolf	
Perturbative QCD analysis of $B \rightarrow \phi K$ decays and power counting (17 pages)	112002
Chuan-Hung Chen, Yong-Yeon Keum, and Hsiang-nan Li	
Study of the decay $D^0 \rightarrow K^- K^- K^+ \pi^+$ (8 pages)	112003
E. M. Aitala <i>et al.</i> (Fermilab E791 Collaboration)	
New measurement of the radiative K_{e3} branching ratio and photon spectrum (7 pages)	112004
A. Alavi-Harati <i>et al.</i> (KTeV Collaboration)	
Measurement of longitudinal spin transfer to Λ hyperons in deep-inelastic lepton scattering (7 pages)	112005
A. Airapetian <i>et al.</i> (HERMES Collaboration)	
Precise measurement of dimuon production cross sections in ν_μ Fe and $\bar{\nu}_\mu$ Fe deep inelastic scattering at the Fermilab Tevatron (19 pages)	112006
M. Goncharov <i>et al.</i>	
Evidence for neutrino oscillations from the observation of $\bar{\nu}_e$ appearance in a $\bar{\nu}_\mu$ beam (22 pages)	112007
A. Aguilar <i>et al.</i> (LSND Collaboration)	
Global oscillation analysis of solar neutrino data with helioseismically constrained fluxes (10 pages)	113001
Sandhya Choubey, Srubabati Goswami, Kamales Kar, H. M. Antia, and S. M. Chitre	
QED corrections to neutrino-electron scattering (11 pages)	113002
M. Passera	



Majorana neutrinos, neutrino mass spectrum, CP violation, and neutrinoless double β decay. II. Mixing of four neutrinos (29 pages)	113003
S. M. Bilenky, S. Pascoli, and S. T. Petcov	
Precision determination of $ V_{ub} $ from inclusive decays (10 pages)	113004
Christian W. Bauer, Zoltan Ligeti, and Michael Luke	
Leptogenesis with single right-handed neutrino dominance (18 pages)	113005
M. Hirsch and S. F. King	
Neutrino oscillations via the bulk (7 pages)	113006
C. S. Lam and J. N. Ng	
Photons, neutrinos, and the optical activity (8 pages)	113007
Ali Abbasabadi and Wayne W. Repko	
Resummation of large QCD logarithms in $H \rightarrow \gamma\gamma$ (7 pages)	113008
R. Akhouri, H. Wang, and O. Yakovlev	
Model independent radiative corrections in processes of polarized electron-nucleon elastic scattering (11 pages)	113009
A. Afanasev, I. Akushevich, and N. Merenkov	
Supersymmetric phases, the electron electric dipole moment and the muon magnetic moment (12 pages)	113010
R. Arnowitt, B. Dutta, and Y. Santoso	
Solving the solar neutrino puzzle with KamLAND and solar data (8 pages)	113011
André de Gouvêa and Carlos Peña-Garay	
Softly broken A_4 symmetry for nearly degenerate neutrino masses (5 pages)	113012
Ernest Ma and G. Rajasekaran	
Bimaximal neutrino mixing and small U_{e3} from Abelian flavor symmetry (10 pages)	113013
Kiwoon Choi, Eung Jin Chun, Kyuwan Hwang, and Wan Young Song	
Standard model Higgs boson mass from borderline metastability of the vacuum (6 pages)	113014
C. D. Froggatt, H. B. Nielsen, and Y. Takanishi	
High energy neutrino signals of four neutrino mixing (7 pages)	113015
Sharada Iyer Dutta, Mary Hall Reno, and Ina Sarcevic	
Possible flavor mixing structures of lepton mass matrices (8 pages)	113016
Naoyuki Haba, Joe Sato, Morimitsu Tanimoto, and Koichi Yoshioka	
Equations for neutrino propagation in matter (8 pages)	113017
Paul M. Fishbane and Stephen G. Gasiorowicz	
Sudakov resummation and finite order expansions of heavy quark hadroproduction cross sections (36 pages)	114001
Nikolaos Kidonakis, Eric Laenen, Sven Moch, and Ramona Vogt	
Eikonal evolution and gluon radiation (21 pages)	114002
Alex Kovner and Urs Achim Wiedemann	
Remarks on the determination of the Landau gauge OPE for the asymmetric three gluon vertex (7 pages)	114003
F. De Soto and J. Rodríguez-Quintero	
Excited heavy-light systems and hadronic transitions (20 pages)	114004
M. Di Pierro and E. Eichten	
Baryons in $O(4)$ and the vibron model (11 pages)	114005
M. Kirchbach, M. Moshinsky, and Yu. F. Smirnov	
QCD sum rules for heavy baryons (10 pages)	114006
H. Y. Jin and J. G. Körner	
Towards a global analysis of polarized parton distributions (10 pages)	114007
Marco Stratmann and Werner Vogelsang	
Resummation of QCD corrections to the η_c decay rate (16 pages)	114008
Geoffrey T. Bodwin and Yu-Qi Chen	

Rare charm meson decays $D \rightarrow Pl^+l^-$ and $c \rightarrow ul^+l^-$ in the standard model and the minimal supersymmetric standard model (11 pages)	114009
S. Fajfer, S. Prelovsek, and P. Singer	
Nonperturbative hyperfine contribution to the b_1 and h_1 meson masses (9 pages)	114010
A. M. Badalian and B. L. G. Bakker	
Phenomenology of multiple parton radiation in semi-inclusive deep-inelastic scattering (15 pages)	114011
P. M. Nadolsky, D. R. Stump, and C.-P. Yuan	
Calculation of Reggeon vertices in QCD (12 pages)	114012
V. S. Fadin and R. Fiore	
Phenomenological applications of QCD factorization to semi-inclusive B decays and direct CP violation (16 pages)	114013
Hai-Yang Cheng and Amarjit Soni	
Resumming the color-octet contribution to radiative Υ decay (10 pages)	114014
Christian W. Bauer, Cheng-Wei Chiang, Sean Fleming, Adam K. Leibovich, and Ian Low	
Soft color interactions and diffractive hard scattering at the Fermilab Tevatron (19 pages)	114015
R. Enberg, G. Ingelman, and N. Tîmneanu	
Diffractive gluon production in proton-nucleus collisions and in deep inelastic scattering (11 pages)	114016
Yuri V. Kovchegov	
Photoproduction of the isolated photon at DESY HERA in next-to-leading order QCD (13 pages)	114017
A. Zembruski and M. Krawczyk	
Quark diagram analysis of $B \rightarrow VV$ weak decays including smearing effects (13 pages)	114018
R. C. Verma and Avinash Sharma	
Interaction of Reggeized gluons in the Baxter-Sklyanin representation (27 pages)	114019
H. J. de Vega and L. N. Lipatov	
Systematic study of the single instanton approximation in QCD (8 pages)	114020
P. Faccioli and E. V. Shuryak	
Microscopic correlations for non-Hermitian Dirac operators in three-dimensional QCD (10 pages)	114021
G. Akemann	
TeV-scale electron Compton scattering in the Randall-Sundrum scenario (5 pages)	114022
S. R. Choudhury, A. S. Cornell, and G. C. Joshi	
Application of Pauli-Villars regularization and discretized light-cone quantization to a single-fermion truncation of Yukawa theory (13 pages)	114023
Stanley J. Brodsky, John R. Hiller, and Gary McCartor	
Mesonic tensor form factors with the light front quark model (10 pages)	114024
C. Q. Geng, C. W. Hwang, C. C. Lih, and W. M. Zhang	
Confinement and chiral symmetry breaking via domainlike structures in the QCD vacuum (20 pages)	114025
Alex C. Kalloniatis and Sergei N. Nedelko	
Topological susceptibility in lattice QCD with two flavors of dynamical quarks (10 pages)	114501
A. Ali Khan <i>et al.</i> (CP-PACS Collaboration)	
Monopoles, confinement, and deconfinement of $(2+1)$ D compact lattice QED in external fields (13 pages)	114502
M. N. Chernodub, E.-M. Ilgenfritz, and A. Schiller	

Numerical study of $O(a)$ improved Wilson quark action on an anisotropic lattice (17 pages)	114503
Hideo Matsufuru, Tetsuya Onogi, and Takashi Umeda	
Effective Lagrangian for strongly coupled domain wall fermions (13 pages)	114504
Federico Berruto, Richard C. Brower, and Benjamin Svetitsky	
Differential decay rate of $B \rightarrow \pi l \nu$ semileptonic decay with lattice nonrelativistic QCD (19 pages)	114505
S. Aoki <i>et al.</i>	
Kaon B parameter from quenched domain-wall QCD (21 pages)	114506
A. Ali Khan <i>et al.</i> (CP-PACS Collaboration)	
Color confinement and dual superconductivity of the vacuum. III (7 pages)	114507
J. M. Carmona, M. D'Elia, A. Di Giacomo, B. Lucini, and G. Paffuti	
Light quark masses with overlap fermions in quenched QCD (9 pages)	114508
L. Giusti, C. Hoelbling, and C. Rebbi	
Low fermionic eigenmode dominance in QCD on the lattice (12 pages)	114509
H. Neff, N. Eicker, Th. Lippert, J. W. Negele, and K. Schilling	
Partially quenched chiral perturbation theory without Φ_0 (23 pages)	114510
Stephen Sharpe and Noam Shoresh	
Characteristic W -ino signals in a linear collider from anomaly mediated supersymmetry breaking (14 pages)	115001
Dilip Kumar Ghosh, Anirban Kundu, Probir Roy, and Sourov Roy	
Selectron studies at e^-e^- and e^+e^- colliders (8 pages)	115002
Jonathan L. Feng and Michael E. Peskin	
Supersymmetric QCD decoupling properties in $H^+ \rightarrow t\bar{b}$ decay (21 pages)	115003
María J. Herrero, Siannah Peñaranda, and David Temes	
Electroweak corrections to the charged Higgs boson decay into a chargino and neutralino (9 pages)	115004
Wan Lang-Hui, Ma Wen-Gan, Zhang Ren-You, and Jiang Yi	
CP violation in the lepton flavor violating interactions $\mu \rightarrow e \gamma$ and $\tau \rightarrow \mu \gamma$ (6 pages)	115005
E. O. Iltan	
Sneutrino-induced like sign dilepton signal with conserved R parity (15 pages)	115006
St. Kolb, M. Hirsch, H. V. Klapdor-Kleingrothaus, and O. Panella	
Pair production of neutral Higgs bosons through noncommutative QED interactions at linear colliders (4 pages)	115007
Harald Grosse and Yi Liao	
Bounds on the $Z\gamma Z$ anomalous couplings from radiative ep scattering at the Very Large Hadron Collider (4 pages)	115008
Y. A. Coutinho, A. J. Ramalho, R. Walsh, and S. Wulck	
Constraining models of new physics in light of recent experimental results on $a_{\psi K_S}$ (12 pages)	115009
Sven Bergmann and Gilad Perez	
Bounds on the unitarity triangle, $\sin 2\beta$ and $K \rightarrow \pi \nu \bar{\nu}$ decays in models with minimal flavor violation (11 pages)	115010
Andrzej J. Buras and Robert Fleischer	
Small neutrino masses from supersymmetry breaking (15 pages)	115011
Nima Arkani-Hamed, Lawrence Hall, Hitoshi Murayama, David Smith, and Neal Weiner	
Nonrenormalization theorems in softly broken supersymmetric QED and the soft β functions (13 pages)	115012
E. Kraus and D. Stöckinger	
One-loop corrections to the chargino and neutralino mass matrices in the on-shell scheme (9 pages)	115013
H. Eberl, M. Kincel, W. Majerotto, and Y. Yamada	

Suppressing the μ and neutrino masses by a superconformal force (10 pages)	115014
Jisuke Kubo and Daijiro Suematsu	
Blocking active-sterile neutrino oscillations in the early universe with a Majoron field (8 pages)	115015
Luís Bento and Zurab Berezhiani	
Search for solar axions using ${}^7\text{Li}$ (4 pages)	115016
M. Krčmar, Z. Krečak, A. Ljubičić, M. Stipčević, and D. A. Bradley	
Sneutrino mass measurements at e^+e^- linear colliders (21 pages)	115017
J. Kenichi Mizukoshi, Howard Baer, A. S. Belyaev, and Xerxes Tata	
Muon anomalous magnetic moment in the standard model with two Higgs doublets (6 pages)	115018
Yue-Liang Wu and Yu-Feng Zhou	
Subtleties in CPT transformation for Majorana fermions (3 pages)	116001
Marek Nowakowski	
Twist-three analysis of photon electroproduction off the pion (10 pages)	116002
A. V. Belitsky, D. Müller, A. Kirchner, and A. Schäfer	
T -violating triple-product correlations in hadronic b decays (6 pages)	116003
Wafia Bensalem and David London	
Minijet transverse spectrum in high-energy hadron-nucleus collisions (14 pages)	116004
Alberto Accardi and Daniele Treleani	
Carlson-Goldman modes in the color superconducting phase of dense QCD (5 pages)	116005
V. P. Gusynin and I. A. Shovkovy	
Axion and neutrino physics from anomaly cancellation (7 pages)	116006
M. Fabbri, M. Piai, and G. Tasinato	
CP violation from noncommutative geometry (10 pages)	116007
I. Hinchliffe and N. Kersting	
$S_{11}-N(1535)$ and $-N(1650)$ resonances in meson-baryon unitarized coupled channel chiral perturbation theory (21 pages)	116008
J. Nieves and E. Ruiz Arriola	
New analytic running coupling in spacelike and timelike regions (6 pages)	116009
A. V. Nesterenko	
Constraining quark-hadron duality at large N_c (8 pages)	116010
Silas R. Beane	
Multiplicative renormalizability of gluon and ghost propagators in QCD (11 pages)	116011
J. C. R. Bloch	

BRIEF REPORTS

New parametrization of the neutrino mixing matrix for neutrino oscillations (4 pages)	117301
Virendra Gupta and Xiao-Gang He	
Model for fermion mass matrices and the origin of quark-lepton mass relations (4 pages)	117302
D. Falcone	
Light unstable sterile neutrino (3 pages)	117303
Ernest Ma and G. Rajasekaran	
Seesaw mechanism and four light neutrino states (2 pages)	117304
M. Czakon, J. Gluza, and M. Zralek	
Large effects on $B_s\bar{B}_s$ mixing by vectorlike quarks (4 pages)	117305
Mayumi Aoki, Gi-Chol Cho, Makiko Nagashima, and Noriyuki Oshimo	
Another determination of the quark condensate from an overlap action (2 pages)	117501
Thomas DeGrand (MILC Collaboration)	
Quenched divergences in the deconfined phase of $SU(2)$ gauge theory (4 pages)	117502
Joe Kiskis and Rajamani Narayanan	

CONTENTS - *Continued*

PHYSICAL REVIEW D

THIRD SERIES, VOLUME 64, NUMBER 11

1 DECEMBER 2001

Final-state interactions and s-quark helicity conservation in $B \rightarrow J/\psi K^*$ (4 pages)	117503
Mahiko Suzuki	
Scalar scenarios contributing to $(g-2)_\mu$ with enhanced Yukawa couplings (4 pages)	117701
C. A. de S. Pires and P. S. Rodrigues da Silva	

ERRATA

Erratum: Dileptons from a quark-gluon plasma with finite baryon density [Phys. Rev. D 63 , 114008 (2001)] (1 page)	119901(E)
A. Majumder and C. Gale	
Erratum: Three flavor long-wavelength vacuum oscillation solution to the solar neutrino problem [Phys. Rev. D 63 , 013005 (2001)] (1 page)	119902(E)
A. M. Gago, H. Nunokawa, and R. Zukanovich Funchal	
Cumulative Author Index	i