

RAPID COMMUNICATIONS

Measurement of top quark polarization in $t\bar{t}$ lepton+jets final states (9 pages)	011101(R)
V. M. Abazov <i>et al.</i> (D0 Collaboration)	
Search for D^0 decays to invisible final states at Belle (8 pages)	011102(R)
Y.-T. Lai <i>et al.</i> (Belle Collaboration)	
Tomographic image of the proton (6 pages)	011501(R)
R. Dupré, M. Guidal, and M. Vanderhaeghen	
Disentangling shadowing from coherent energy loss using the Drell-Yan process (6 pages)	011502(R)
François Arleo and Stéphane Peigné	
Tension in the inclusive versus exclusive determinations of $ V_{cb} $: A possible role of new physics (6 pages)	011701(R)
P. Colangelo and F. De Fazio	

ARTICLES

Search for the 0^{--} glueball in $\Upsilon(1S)$ and $\Upsilon(2S)$ decays (13 pages)	012001
S. Jia <i>et al.</i> (Belle Collaboration)	
 Amplitude analysis of $B^+ \rightarrow J/\psi \phi K^+$ decays (28 pages)	012002
R. Aaij <i>et al.</i> (LHCb Collaboration)	
Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s} = 13$ TeV (32 pages)	012003
V. Khachatryan <i>et al.</i> (CMS Collaboration)	
 Search for proton decay via $p \rightarrow e^+ \pi^0$ and $p \rightarrow \mu^+ \pi^0$ in 0.31 megaton · years exposure of the Super-Kamiokande water Cherenkov detector (10 pages)	012004
K. Abe <i>et al.</i> (Super-Kamiokande Collaboration)	
Search for flavor-changing nonstandard neutrino interactions using ν_e appearance in MINOS (5 pages)	012005
P. Adamson <i>et al.</i> (MINOS Collaboration)	
Observation of the decay $B_s^0 \rightarrow \phi \pi^+ \pi^-$ and evidence for $B^0 \rightarrow \phi \pi^+ \pi^-$ (15 pages)	012006
R. Aaij <i>et al.</i> (LHCb Collaboration)	
Measurement of the $2\nu\beta\beta$ decay half-life and search for the $0\nu\beta\beta$ decay of ^{116}Cd with the NEMO-3 detector (12 pages)	012007
R. Arnold <i>et al.</i> (NEMO-3 Collaboration)	
Signal yields, energy resolution, and recombination fluctuations in liquid xenon (12 pages)	012008
D. S. Akerib <i>et al.</i> (LUX Collaboration)	
Search for R -parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s} = 8$ TeV (23 pages)	012009
V. Khachatryan <i>et al.</i> (CMS Collaboration)	
First measurement of the muon neutrino charged current single pion production cross section on water with the T2K near detector (11 pages)	012010
K. Abe <i>et al.</i> (T2K Collaboration)	



Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s} = 13$ TeV (26 pages)	012011
V. Khachatryan <i>et al.</i> (CMS Collaboration)	
Effective field theory for large logarithms in radiative corrections to electron proton scattering (23 pages)	013001
Richard J. Hill	
Improved limits on the hadronic and semihadronic CP violating parameters and role of a dark force carrier in the electric dipole moment of ^{199}Hg (9 pages)	013002
B. K. Sahoo	
Remarks on the Standard Model predictions for $R(D)$ and $R(D^*)$ (7 pages)	013003
C. S. Kim, G. Lopez-Castro, S. L. Tostado, and A. Vicente	
Loop corrections to pion and kaon neutrino production (9 pages)	013004
Marat Siddikov and Iván Schmidt	
Fluctuations of the multiplicity of produced particles in onium-nucleus collisions (13 pages)	014001
Tseh Liou, A. H. Mueller, and S. Munier	
Comparative analysis of analytical solutions for $F_2^P(x, t)$ in the DGLAP approach (9 pages)	014002
D. K. Choudhury and Neelakshi N. K. Borah	
$\gamma^* N \rightarrow N^*(1520)$ form factors in the timelike regime (13 pages)	014003
G. Ramalho and M. T. Peña	
Higgs bosons at high p_T (15 pages)	014004
Tobias Neumann and Ciaran Williams	
$\phi\phi$ and $J/\psi\phi$ mass spectra in decay $B_s^0 \rightarrow J/\psi\phi\phi$ (11 pages)	014005
A. A. Kozhevnikov	
$J/\psi N$ interactions revisited and $\Lambda_b^0 \rightarrow J/\psi K^-(\pi^-)p$ decays (11 pages)	014006
C. W. Xiao	
Scaling violation and the magnetic equation of state in chiral models (14 pages)	014007
Gábor András Almási, Wojciech Tarnowski, Bengt Friman, and Krzysztof Redlich	
Single spin asymmetry in forward pA collisions. II. Fragmentation contribution (10 pages)	014008
Yoshitaka Hatta, Bo-Wen Xiao, Shinsuke Yoshida, and Feng Yuan	
Flipped versions of the universal 3-3-1 and the left-right symmetric models in $[SU(3)]^3$: A comprehensive approach (16 pages)	014009
Oscar Rodríguez, Richard H. Benavides, William A. Ponce, and Eduardo Rojas	
Structure of pentaquarks P_c^+ in the chiral quark model (9 pages)	014010
Gang Yang, Jialun Ping, and Fan Wang	
Analysis of nucleon electromagnetic form factors from light-front holographic QCD: The spacelike region (14 pages)	014011
Raza Sabbir Sufian, Guy F. de Téra mond, Stanley J. Brodsky, Alexandre Deur, and Hans Günter Dosch	
Meson-baryon effective chiral Lagrangians at order p^4 (13 pages)	014012
Shao-Zhou Jiang, Qing-Sen Chen, and Yan-Rui Liu	
Pomeron-Odderon interactions in a Reggeon field theory (13 pages)	014013
Jochen Bartels, Carlos Contreras, and Gian Paolo Vacca	
Medium-induced gluon radiation in hard forward parton scattering in the saturation formalism (16 pages)	014014
Stéphane Munier, Stéphane Peigné, and Elena Petreska	
Semileptonic $\Lambda_b \rightarrow \bar{\nu}_l \Lambda_c(2595)$ and $\Lambda_b \rightarrow \bar{\nu}_l \Lambda_c(2625)$ decays in the molecular picture of $\Lambda_c(2595)$ and $\Lambda_c(2625)$ (8 pages)	014015
Wei-Hong Liang, Eulogio Oset, and Zhu-Sheng Xie	
Multiple parton interactions and production of charged particles up to the intermediate- p_T range in high-multiplicity pp events at the LHC (8 pages)	014016
Somnath Kar, Subikash Choudhury, Sanjib Muhuri, and Premomoy Ghosh	
Production of charmed baryons in $\bar{p}p$ collisions close to their thresholds (14 pages)	014017
J. Haidenbauer and G. Krein	
Parton shower uncertainties in jet substructure analyses with deep neural networks (9 pages)	014018
James Barnard, Edmund Noel Dawe, Matthew J. Dolan, and Nina Rajcic	
Light-by-light scattering sum rules in light of new data (13 pages)	014019
Igor Danilkin and Marc Vanderhaeghen	

(Continued)



Role of σ exchange in the $\gamma p \rightarrow \phi p$ process and scaling with the f_1 axial vector meson from a Reggeized model (6 pages)	014020
Byung-Geel Yu, Hungchong Kim, and Kook-Jin Kong	
Monte Carlo implementation of polarized hadronization (12 pages)	014021
Hrayr H. Matevosyan, Aram Kotzinian, and Anthony W. Thomas	
Semileptonic $B_{(s)}$ decays to excited charmed mesons with e, μ, τ and searching for new physics with $R(D^{**})$ (18 pages)	014022
Florian U. Bernlochner and Zoltan Ligeti	
Structure of charmed baryons studied by pionic decays (20 pages)	014023
Hideko Nagahiro, Shigehiro Yasui, Atsushi Hosaka, Makoto Oka, and Hiroyuki Noumi	
Finite-width Laplacian sum rules for 2^{++} tensor glueball in the instanton vacuum model (15 pages)	014024
Junlong Chen and Jueping Liu	
Plasmon mass scale in classical nonequilibrium gauge theory (9 pages)	014025
T. Lappi and J. Peuron	
Implications from $B \rightarrow K^* \ell^+ \ell^-$ observables using 3 fb^{-1} of LHCb data (12 pages)	014026
Rusa Mandal and Rahul Sinha	
Quark orbital angular momentum in the MIT bag model (11 pages)	014027
A. Courtoy and A. S. Miramontes	
Decay modes of the excited pseudoscalar glueball (10 pages)	014028
Walaa I. Eshraim and Stefan Schramm	
Strange quark-antiquark asymmetry of nucleon sea from $\Lambda/\bar{\Lambda}$ polarization (6 pages)	014029
Xiaozhen Du and Bo-Qiang Ma	
Dipole model analysis of highest precision HERA data, including very low Q^2 (8 pages)	014030
A. Luszczak and H. Kowalski	
Heavy pentaquark states and a novel color structure (8 pages)	014031
Chengrong Deng, Jialun Ping, Hongxia Huang, and Fan Wang	
Pseudoscalar condensation induced by chiral anomaly and vorticity for massive fermions (12 pages)	014032
Ren-hong Fang, Jin-yi Pang, Qun Wang, and Xin-nian Wang	
Helicity evolution at small x : Flavor singlet and nonsinglet observables (26 pages)	014033
Yuri V. Kovchegov, Daniel Pitonyak, and Matthew D. Sievert	
Perturbative QCD and beyond: Azimuthal angle correlations in deuteron-deuteron scattering from Bose-Einstein correlations (21 pages)	014034
E. Gotsman and E. Levin	
Observing the top energy asymmetry at the LHC (11 pages)	014035
S. Berge and S. Westhoff	
Reconstructing parton densities at large fractional momenta (12 pages)	014036
Alessandro Bacchetta, Marco Radici, Barbara Pasquini, and Xiaonu Xiong	
750 GeV threshold to a new particle world (6 pages)	014037
Samarth Jain, Fabrizio Margaroli, Stefano Moretti, and Luca Panizzi	
Universal relations between non-Gaussian fluctuations in heavy-ion collisions (7 pages)	014038
Jiunn-Wei Chen, Jian Deng, Hiroaki Kohyama, and Lance Labun	
Predicting the singlet vector channel in a partially broken gauge-Higgs theory (5 pages)	014501
A. Maas and P. Törek	
Monte Carlo calculations of the finite density Thirring model (6 pages)	014502
Andrei Alexandru, Gökçe Başar, Paulo F. Bedaque, Gregory W. Ridgway, and Neill C. Warrington	
Gribov horizon and Gribov copies effect in lattice Coulomb gauge (11 pages)	014503
Giuseppe Burgio, Markus Quandt, Hugo Reinhardt, and Hannes Vogt	
In-medium dispersion relations of charmonia studied by the maximum entropy method (11 pages)	014504
Atsuro Ikeda, Masayuki Asakawa, and Masakiyo Kitazawa	
Nonperturbative determination of improvement coefficients using coordinate space correlators in $N_f = 2 + 1$ lattice QCD (15 pages)	014505
Piotr Korcyl and Gunnar S. Bali	
Structure of the $\Lambda(1405)$ from Hamiltonian effective field theory (10 pages)	014506
Zhan-Wei Liu, Jonathan M. M. Hall, Derek B. Leinweber, Anthony W. Thomas, and Jia-Jun Wu	

(Continued)



Slow running of the gradient flow coupling from 200 MeV to 4 GeV in $N_f = 3$ QCD (19 pages)	014507
Mattia Dalla Brida, Patrick Fritzsche, Tomasz Korzec, Alberto Ramos, Stefan Sint, and Rainer Sommer	
Nambu–Jona-Lasinio model with Wilson fermions (7 pages)	014508
Jarno Rantaharju, Vincent Drach, Claudio Pica, and Francesco Sannino	
Locality and efficient evaluation of lattice composite fields: Overlap-based gauge operators (22 pages)	014509
Andrei Alexandru and Ivan Horváth	
Pion-nucleon scattering in the Roper channel from lattice QCD (13 pages)	014510
C. B. Lang, L. Leskovec, M. Padmanath, and S. Prelovsek	
q -deformed statistics and the role of light fermionic dark matter in SN1987A cooling (12 pages)	015001
Atanu Guha, Selvaganapathy J, and Prasanta Kumar Das	
Loop suppressed electroweak symmetry breaking and naturally heavy superpartners (6 pages)	015002
Radovan Dermšek	
Missing particle associated with two bottom quarks at the LHC: Mono- b versus $2b$ with razor variables (12 pages)	015003
Ning Chen, Zhaofeng Kang, and Jinmian Li	
Singlet model interference effects with high scale UV physics (9 pages)	015004
S. Dawson and I. M. Lewis	
Supersymmetric models on magnetized orbifolds with flux-induced Fayet-Iliopoulos terms (14 pages)	015005
Hiroyuki Abe, Tatsuo Kobayashi, Keigo Sumita, and Yoshiyuki Tatsuta	
Sphalerons in composite and nonstandard Higgs models (22 pages)	015006
Michael Spannowsky and Carlos Tamarit	
Diphoton signal via Chern-Simons interaction in a warped geometry scenario (6 pages)	015007
Nabarun Chakrabarty, Biswarup Mukhopadhyaya, and Soumitra SenGupta	
Protophobic light vector boson as a mediator to the dark sector (7 pages)	015008
Teppei Kitahara and Yasuhiro Yamamoto	
Cosmological relaxation and high scale inflation (7 pages)	015009
Tetsutaro Higaki, Naoyuki Takeda, and Yusuke Yamada	
Exploring detection of nuclearites in a large liquid scintillator neutrino detector (6 pages)	015010
Wan-Lei Guo, Cheng-Jun Xia, Tao Lin, and Zhi-Min Wang	
Anticipating nonresonant new physics in dilepton angular spectra at the LHC (20 pages)	015011
Nirmal Raj	
Alternative schemes of predicting lepton mixing parameters from discrete flavor and CP symmetry (33 pages)	015012
Jun-Nan Lu and Gui-Jun Ding	
Higgs-stoppedonium mixing near the stop-antistop threshold (22 pages)	015013
Geoffrey T. Bodwin, Hee Sok Chung, and Carlos E. M. Wagner	
Search for electroweak-scale right-handed neutrinos and mirror charged leptons through like-sign dilepton signals (14 pages)	015014
Shreyashi Chakdar, K. Ghosh, V. Hoang, P. Q. Hung, and S. Nandi	
Phenomenology of an $SU(2)_1 \times SU(2)_2 \times U(1)_Y$ model at the LHC (11 pages)	015015
Chuan-Hung Chen and Takaaki Nomura	
Implications of CP -violating top-Higgs couplings at the LHC and Higgs factories (7 pages)	015016
Archil Kobakhidze, Ning Liu, Lei Wu, and Jason Yue	
Exploring collider signatures of the inert Higgs doublet model (12 pages)	015017
Amitava Datta, Nabanita Ganguly, Najimuddin Khan, and Subhendu Rakshit	
Perturbative Higgs coupling CP violation, unitarity, and phenomenology (11 pages)	015018
Christoph Englert, Karl Nordström, Kazuki Sakurai, and Michael Spannowsky	
Limits on gravitational Einstein equivalence principle violation from monitoring atomic clock frequencies during a year (6 pages)	015019
V. A. Dzuba and V. V. Flambaum	
Probing a classically conformal $B - L$ model with gravitational waves (12 pages)	015020
Ryusuke Jinno and Masahiro Takimoto	
Gauge symmetry breaking patterns in an $SU(5)$ grand gauge-Higgs unification model (12 pages)	015021
Kentaro Kojima, Kazunori Takenaga, and Toshifumi Yamashita	

(Continued)



Interpretation of lepton flavor violation (6 pages)	015022
Julian Heeck	
New neutrino physics and the altered shapes of solar neutrino spectra (14 pages)	015023
Ilídio Lopes	
Unitarity and Lee-Wick prescription at one loop level in the effective Myers-Pospelov electrodynamics: The $e^+ + e^-$ annihilation (16 pages)	015024
Carlos M. Reyes and L. F. Urrutia	
Flavor from the double tetrahedral group without supersymmetry (11 pages)	015025
Christopher D. Carone, Shikha Chaurasia, and Savannah Vasquez	
Three-loop neutrino mass model with a colored triplet scalar (9 pages)	015026
Kingman Cheung, Takaaki Nomura, and Hiroshi Okada	
Faking ordinary photons by displaced dark photon decays (12 pages)	015027
Yuhsin Tsai, Lian-Tao Wang, and Yue Zhao	
Fundamental composite electroweak dynamics: Status at the LHC (18 pages)	015028
Alexandre Arbey, Giacomo Cacciapaglia, Haiying Cai, Aldo Deandrea, Solène Le Corre, and Francesco Sannino	
Low scale left-right-right-left symmetry (8 pages)	015029
Gauhar Abbas	
Tagging a monotop signature in natural SUSY (7 pages)	015030
Dorival Gonçalves, Kazuki Sakurai, and Michihisa Takeuchi	
Secretly asymmetric dark matter (6 pages)	015031
Prateek Agrawal, Can Kilic, Sivaramakrishnan Swaminathan, and Cynthia Trendafilova	
Non-Abelian dark forces and the relic densities of dark glueballs (15 pages)	015032
Lindsay Forestell, David E. Morrissey, and Kris Sigurdson	
Effects of nonminimal universal extra dimension on $B \rightarrow X_s \gamma$ (13 pages)	015033
Anindya Datta and Avirup Shaw	
Critical Schwinger pair production. II. Universality in the deeply critical regime (18 pages)	016001
Holger Gies and Greger Torgrimsson	
Direct numerical approach to one-loop amplitudes (8 pages)	016002
G. Duplancić and B. Klajn	
Effective pion mass term and the trace anomaly (5 pages)	016003
Maarten Golterman and Yigal Shamir	
Classical enhancement of quantum vacuum fluctuations (5 pages)	016004
V. A. De Lorenci and L. H. Ford	
Real singlet scalar dark matter extension of the Georgi-Machacek model (17 pages)	016005
Robyn Campbell, Stephen Godfrey, Heather E. Logan, and Alexandre Poulin	
Spin- and velocity-dependent nonrelativistic potentials in modified electrodynamics (9 pages)	016006
G. P. de Brito, P. C. Malta, and L. P. R. Ospedal	
Kinetic mixing at strong coupling (23 pages)	016007
Michele Del Zotto, Jonathan J. Heckman, Piyush Kumar, Arada Malekian, and Brian Wecht	
Evaluation of the general three-loop vacuum Feynman integral (27 pages)	016008
Stephen P. Martin and David G. Robertson	
Flavor changing neutral current transition of B to a_1 with light-cone sum rules (17 pages)	016009
S. Momeni, R. Khosravi, and F. Falahati	
Two-photon transition form factor of $\bar{c}c$ quarkonia (11 pages)	016010
Jing Chen, Minghui Ding, Lei Chang, and Yu-xin Liu	
Two-body charmed $B_{(s)}$ decays involving a light scalar meson (11 pages)	016011
Zhi-Tian Zou, Ying Li, and Xin Liu	

(Continued)



ERRATA

Erratum: Constructive interference in the spectrum of bremsstrahlung on two amorphous targets [Phys. Rev. D 90 , 116007 (2014)] (<i>1 pages</i>)	019901
M. V. Bondarenco and N. F. Shul'ga	
Erratum: Lattice study of large N_c QCD [Phys. Rev. D 94 , 034506 (2016)] (<i>2 pages</i>)	019902
Thomas DeGrand and Yuzhi Liu	
Erratum: Kaon-nucleon scattering to one-loop order in heavy baryon chiral perturbation theory [Phys. Rev. D 92 , 114033 (2015)] (<i>6 pages</i>)	019903
Bo-Lin Huang and Yun-De Li	
Publisher's Note: Multiple parton interactions and production of charged particles up to the intermediate- p_T range in high-multiplicity pp events at the LHC [Phys. Rev. D 95 , 014016 (2017)] (<i>1 pages</i>)	019904
Somnath Kar, Subikash Choudhury, Sanjib Muhuri, and Premomoy Ghosh	

