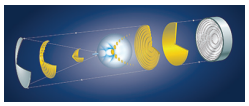

Optical configuration with a combined axiparabola-echelon that enables a dephasingless laser wakefield accelerator. Selected for a Viewpoint in *Physics* and an Editors' Suggestion. [J. P. Palastro *et al.*, Phys. Rev. Lett. **124**, 134802 (2020)]

NEWSPAPER

PHYSICAL REVIEW LETTERS

Contents

Articles published 28 March–3 April 2020

VOLUME 124, NUMBER 13 3 April 2020

General Physics: Statistical and Quantum Mechanics, Quantum Information, etc.

Fault-Tolerant Thresholds for the Surface Code in Excess of 5% under Biased Noise 130501
David K. Tuckett, Stephen D. Bartlett, Steven T. Flammia, and Benjamin J. Brown

Quantum Autoencoders to Denoise Quantum Data 130502
Dmytro Bondarenko and Polina Feldmann

The Energetic Cost of Work Extraction 130601
Juliette Monsel, Marco Fellous-Asiani, Benjamin Huard, and Alexia Auffèves

Noise-Driven Universal Dynamics towards an Infinite Temperature State 130602
Jie Ren, Qiaoyi Li, Wei Li, Zi Cai, and Xiaoqun Wang

Tensor Network Approach to Phase Transitions of a Non-Abelian Topological Phase 130603
Wen-Tao Xu, Qi Zhang, and Guang-Ming Zhang

Anomalous Diffusion and Localization in a Positionally Disordered Quantum Spin Array 130604
Raphaël Menu and Tommaso Roscilde

Gravitation and Astrophysics

Constraints on Lorentz Invariance Violation from HAWC Observations of Gamma Rays above 100 TeV 131101
A. Albert *et al.* (HAWC Collaboration)

Internal Delensing of Cosmic Microwave Background Polarization B-Modes with the POLARBEAR Experiment 131301
S. Adachi *et al.* (POLARBEAR Collaboration)

Elementary Particles and Fields

Fractional Quantum Hall Effect in a Relativistic Field Theory 131601
David B. Kaplan and Srimoyee Sen

Conformal n-Point Functions in Momentum Space 131602
Adam Bzowski, Paul McFadden, and Kostas Skenderis

Improved Limits on Millicharged Particles Using the ArgoNeuT Experiment at Fermilab 131801
R. Acciarri, C. Adams, J. Asaadi, B. Baller, T. Bolton, C. Bromberg, F. Cavanna, D. Edmunds, R. S. Fitzpatrick, B. Fleming, R. Harnik, C. James, I. Lepetic, B. R. Littlejohn, Z. Liu, X. Luo, O. Palamara, G. Scanavini, M. Soderberg, J. Spitz, A. M. Szelc, W. Wu, and T. Yang (ArgoNeuT Collaboration)

Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV 131802
A. M. Sirunyan *et al.* (CMS Collaboration)

Signatures of the $d^*(2380)$ Hexaquark in $d(\gamma, p\vec{n})$ 132001
M. Bashkanov *et al.* (A2 Collaboration at MAMI)

Hadronic Light-by-Light Scattering Contribution to the Muon Anomalous Magnetic Moment from Lattice QCD 132002
Thomas Blum, Norman Christ, Masashi Hayakawa, Taku Izubuchi, Luchang Jin, Chulwoo Jung, and Christoph Lehner

Nuclear Physics

Fission of Relativistic Nuclei with Fragment Excitation and Reorientation 132301
Carlos A. Bertulani, Yasemin Kucuk, and Radomira Lozeva

(Continued Inside)

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0031-9007(20200403)124:13;1-Y

$K^- p$ Correlation Function from High-Energy Nuclear Collisions and Chiral SU(3) Dynamics 132501
Yuki Kamiya, Tetsuo Hyodo, Kenji Morita, Akira Ohnishi, and Wolfram Weise

Charge Radius of the Short-Lived ^{68}Ni and Correlation with the Dipole Polarizability 132502
S. Kaufmann, J. Simonis, S. Bacca, J. Billowes, M. L. Bissell, K. Blaum, B. Cheal, R. F. Garcia Ruiz, W. Gins, C. Gorges, G. Hagen, H. Heylen, A. Kanellakopoulos, S. Malbrunot-Ettenauer, M. Miorelli, R. Neugart, G. Neyens, W. Nörtershäuser, R. Sánchez, S. Sailer, A. Schwenk, T. Ratajczyk, L. V. Rodríguez, L. Wehner, C. Wraith, L. Xie, Z. Y. Xu, X. F. Yang, and D. T. Yordanov

Atomic, Molecular, and Optical Physics

1D Magneto-Optical Trap of Polyatomic Molecules 133201
Louis Baum, Nathaniel B. Vilas, Christian Hallas, Benjamin L. Augenbraun, Shivam Raval, Debayan Mitra, and John M. Doyle

Observing the Importance of the Phase-Volume Effect for Few-Cycle Light-Matter Interactions 133202
Yinyu Zhang, Danilo Zille, Dominik Hoff, Philipp Wustelt, Daniel Würzler, Max Möller, A. M. Sayler, and Gerhard G. Paulus

Singlet Pathway to the Ground State of Ultracold Polar Molecules 133203
A. Yang, S. Botsi, S. Kumar, S. B. Pal, M. M. Lam, I. Čepaitė, A. Laugharn, and K. Dieckmann

Radiative Double-Electron Capture by Bare and One-Electron Ions on Gas Targets 133401
D. S. La Mantia, P. N. S. Kumara, S. L. Buglione, C. P. McCoy, C. J. Taylor, J. S. White, A. Kayani, and J. A. Tanis

Time Dependence of Few-Body Förster Interactions among Ultracold Rydberg Atoms 133402
Zhimin Cheryl Liu, Nina P. Inman, Thomas J. Carroll, and Michael W. Noel

Phase-Space Inequalities Beyond Negativities 133601
Martin Bohmann and Elizabeth Agudelo

Nonlinear Dynamics, Fluid Dynamics, Classical Optics, etc.

Improved Phase Locking of Laser Arrays with Nonlinear Coupling 133901
Simon Mahler, Matthew L. Goh, Chene Tradonsky, Asher A. Friesem, and Nir Davidson

Two-Color Soft X-Ray Lasing in a High-Density Nickel-like Krypton Plasma 133902
F. Tissandier, J. Gautier, J.-P. Goddet, A. Kabacinski, S. Sebban, J. Nejdl, M. Kozlová, and G. Maynard

Influence of the Local Scattering Environment on the Localization Precision of Single Particles 133903
Dorian Bouchet, Rémi Carminati, and Allard P. Mosk

Mid-Infrared Frequency Comb Generation and Spectroscopy with Few-Cycle Pulses and $\chi^{(2)}$ Nonlinear Optics 133904
Alexander J. Lind, Abijith Kowligy, Henry Timmers, Flavio C. Cruz, Nima Nader, Myles C. Silfies, Thomas K. Allison, and Scott A. Diddams

Robust Scattered Fields from Adiabatically Driven Targets around Exceptional Points 133905
Lucas J. Fernández-Alcázar, Huanan Li, Fred Ellis, Andrea Alú, and Tsampikos Kottos

Abrupt Transition between Three-Dimensional and Two-Dimensional Quantum Turbulence 134501
Nicolás P. Müller, Marc-Etienne Brachet, Alexandros Alexakis, and Pablo D. Mininni

Imaging Fluorescence of He_2^* Excimers Created by Neutron Capture in Liquid Helium II 134502
X. Wen, S. R. Bao, L. McDonald, J. Pierce, G. L. Greene, Lowell Crow, Xin Tong, A. Mezzacappa, R. Glasby, W. Guo, and M. R. Fitzsimmons

How Bulk Nanobubbles Might Survive 134503
Beng Hau Tan, Hongjie An, and Claus-Dieter Ohl

Plasma and Beam Physics

Laguerre-Gaussian Mode Laser Heater for Microbunching Instability Suppression in Free-Electron Lasers 134801
Jingyi Tang, Randy Lemons, Wei Liu, Sharon Vetter, Timothy Maxwell, Franz-Josef Decker, Alberto Lutman, Jacek Krzywinski, Gabriel Marcus, Stefan Moeller, Zhirong Huang, Daniel Ratner, and Sergio Carbajo

Dephasingless Laser Wakefield Acceleration 134802
J. P. Palastro, J. L. Shaw, P. Franke, D. Ramsey, T. T. Simpson, and D. H. Froula

(Continued on Preceding Page)

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Breaking 50 Femtosecond Resolution Barrier in MeV Ultrafast Electron Diffraction with a Double Bend Achromat Compressor 134803
Fengfeng Qi, Zhuoran Ma, Lingrong Zhao, Yun Cheng, Wenxiang Jiang, Chao Lu, Tao Jiang, Dong Qian, Zhe Wang, Wentao Zhang, Pengfei Zhu, Xiao Zou, Weishi Wan, Dao Xiang, and Jie Zhang

Laser-Plasma Interaction Experiment for Solar Burst Studies 135001
J.-R. Marquès, C. Briand, F. Amiranoff, S. Depierreux, M. Grech, L. Lancia, F. Pérez, A. Sgattoni, T. Vinci, and C. Riconda

Condensed Matter: Electronic Properties, etc.

Dissipation-Induced Luttinger Liquid Correlations in a One-Dimensional Fermi Gas 136401
Ádám Bácsi, Cătălin Paşcu Moca, and Balázs Dóra

Two Linear Regimes in Optical Conductivity of a Type-I Weyl Semimetal: The Case of Elemental Tellurium 136402
Diego Rodriguez, Alexander A. Tsirlin, Tobias Biesner, Teppei Ueno, Takeshi Takahashi, Kaya Kobayashi, Martin Dressel, and Ece Uykur

Quantum Anomalous Hall Effects in Graphene from Proximity-Induced Uniform and Staggered Spin-Orbit and Exchange Coupling 136403
Petra Högl, Tobias Frank, Klaus Zollner, Denis Kochan, Martin Gmitra, and Jaroslav Fabian

Radial Spin Texture in Elemental Tellurium with Chiral Crystal Structure 136404
M. Sakano, M. Hirayama, T. Takahashi, S. Akebi, M. Nakayama, K. Kuroda, K. Taguchi, T. Yoshikawa, K. Miyamoto, T. Okuda, K. Ono, H. Kumigashira, T. Ideue, Y. Iwasa, N. Mitsuishi, K. Ishizaka, S. Shin, T. Miyake, S. Murakami, T. Sasagawa, and Takeshi Kondo

Disorder-Driven Multifractality Transition in Weyl Nodal Loops 136405
Miguel Gonçalves, Pedro Ribeiro, Eduardo V. Castro, and Miguel A. N. Araújo

Global Phase Diagram of a Spin-Orbital Kondo Impurity Model and the Suppression of Fermi-Liquid Scale 136406
Y. Wang, E. Walter, S.-S. B. Lee, K. M. Stadler, J. von Delft, A. Weichselbaum, and G. Kotliar

Möbius Insulator and Higher-Order Topology in $MnBi_{2n}Te_{3n+1}$ 136407
Rui-Xing Zhang, Fengcheng Wu, and S. Das Sarma

Almost Perfect Metals in One Dimension 136801
Chaitanya Murthy and Chetan Nayak

Quantum Quench in $\mathcal{PT}$-Symmetric Luttinger Liquid 136802
Balázs Dóra and Cătălin Paşcu Moca

Fluctuating Forces Induced by Nonequilibrium and Coherent Light Flow 136803
Ariane Soret, Karyn Le Hur, and Eric Akkermans

Phase Control of Majorana Bound States in a Topological X Junction 137001
Tong Zhou, Matthieu C. Dartiailh, William Mayer, Jong E. Han, Alex Matos-Abiague, Javad Shabani, and Igor Žutić

Stable Flatbands, Topology, and Superconductivity of Magic Honeycomb Networks 137002
Jongjun M. Lee, Chenhua Geng, Jae Whan Park, Masaki Oshikawa, Sung-Sik Lee, Han Woong Yeom, and Gil Young Cho

Spin-Canting-Induced Band Reconstruction in the Dirac Material $Ca_{1-x}Na_xMnBi_2$ 137201
R. Yang, M. Corasaniti, C. C. Le, Z. Y. Liao, A. F. Wang, Q. Du, C. Petrovic, X. G. Qiu, J. P. Hu, and L. Degiorgi

Generation and Imaging of Magnetoacoustic Waves over Millimeter Distances 137202
Blai Casals, Nahuel Statuto, Michael Foerster, Alberto Hernández-Mínguez, Rafael Cichelero, Peter Manshausen, Ania Mandziak, Lucía Aballe, Joan Manel Hernàndez, and Ferran Macià

Scale Law of Far-Field Thermal Radiation from Plasmonic Metasurfaces 137401
Jiayu Li, Bowen Yu, and Sheng Shen

Local Spectroscopies Reveal Percolative Metal in Disordered Mott Insulators 137402
Joseph C. Szabo, Kyungmin Lee, Vidya Madhavan, and Nandini Trivedi

Breaking the Entanglement Barrier: Tensor Network Simulation of Quantum Transport 137701
Marek M. Rams and Michael Zwolak

(Continued on Preceding Page)

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Errata

Erratum: Quantum Games and Quantum Strategies [Phys. Rev. Lett. **83**, 3077 (1999)] 139901
Jens Eisert, Martin Wilkens, and Maciej Lewenstein

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