PHYSICAL REVIEW B **THIRD SERIES, VOLUME 105, NUMBER 7** **FEBRUARY 2022-15(I)**

Fractionalization and anyonic statistics in the integer quantum Hall collider *(14 pages)* 075433
Tom Morel, June-Young M. Lee, H.-S. Sim, and Christophe Mora

Valley-selective hot electron injection from metal nanoantennas to MoS_2 *(7 pages)* 075434
Jie Ma, Gui-Bin Liu, and Shiwu Gao

ERRATA

Erratum: Natural hyperbolicity in layered hexagonal crystal structures [Phys. Rev. B **103**, 035425 (2021)] *(1 page)* 079901(E)
Ali Ebrahimian and Reza Asgari

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 105, NUMBER 7** **FEBRUARY 2022-15(I)**

Spin-resolved thermal signatures of Majorana-Kondo interplay in double quantum dots *(15 pages)* 075418
Piotr Majek, Krzysztof P. Wójcik, and Ireneusz Weymann

Quantum contribution to magnetotransport in weak magnetic fields and negative longitudinal magnetoresistance *(5 pages)* 075419
Hridis K. Pal

Degeneracy and defectiveness in non-Hermitian systems with open boundary *(17 pages)* 075420
Yongxu Fu and Shaolong Wan

Valley-contrasting physics in a two-dimensional $p_{x,y}$-orbital honeycomb lattice *(8 pages)* 075421
Yuanyuan Wang, Chengwang Niu, Baibiao Huang, Ying Dai, and Wei Wei

Atomistic mechanisms of the initial oxidation of stepped $Cu_3Au(100)$ *(15 pages)* 075422
Yaguang Zhu, Dongxiang Wu, Chaoran Li, Xiao Tong, J. Anibal Boscoboinik, Jerzy T. Sadowski, and Guangwen Zhou

Giant tunneling magnetoresistance and electroresistance in α-In_2Se_3-based van der Waals multiferroic tunnel junctions *(11 pages)* 075423
Zhi Yan, Zeyu Li, Yulei Han, Zhenhua Qiao, and Xiaohong Xu

High pressure induced secondary and tertiary gaps in relaxed graphene on hexagonal boron nitride *(11 pages)* . . . 075424
Xianqing Lin, Haotian Zhu, and Jun Ni

Deep learning of deformation-dependent conductance in thin films: Nanobubbles in graphene *(12 pages)* 075425
Jack G. Nedell, Jonah Spector, Adel Abbout, Michael Vogl, and Gregory A. Fiete

Dipolar optical plasmon in thin-film Weyl semimetals *(12 pages)* 075426
Debasmita Giri, Dibya Kanti Mukherjee, Sonu Verma, H. A. Fertig, and Arijit Kundu

Temperature-induced phase transitions in the correlated quantum Hall state of bilayer graphene *(12 pages)* 075427
M. Tanaka, K. Watanabe, T. Taniguchi, K. Nomura, S. Tarucha, and M. Yamamoto

Nanoscale electromagnetism with the boundary element method *(8 pages)* 075428
Ulrich Hohenester and Gerhard Unger

Stopping and image forces on a charged particle moving parallel to an anisotropic two-dimensional material *(14 pages)* 075429
Milad Moshayedi, Maria Rosa Preciado Rivas, and Zoran L. Mišković

Frustration-controlled quantum phase transition between multiple singular two-stage Kondo behaviors in a tetrahedral quadruple quantum dot structure *(13 pages)* 075430
Peng-Chao Wang, Yi-Hui Wang, Chong Chen, Jun Zhang, Wei Li, Nan Nan, Jia-Ning Wang, Jun-Tao Yang, Amel Laref, and Yong-Chen Xiong

Enhanced thermoelectric performance by lone-pair electrons and bond anharmonicity in the two-dimensional Ge_2Y_2 family of materials with $Y = $ N, P, As, or Sb *(10 pages)* 075431
Ao Lou, Qing-Bo Liu, and Hua-Hua Fu

Superconductivity from repulsive interactions in rhombohedral trilayer graphene: A Kohn-Luttinger-like mechanism *(6 pages)* 075432
Tommaso Cea, Pierre A. Pantaleón, Võ Tiến Phong, and Francisco Guinea

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 105, NUMBER 7** **FEBRUARY 2022-15(I)**

Ring of bound states in the continuum in the reciprocal space of a monolayer of high-contrast dielectric spheres *(8 pages)* 075404
A. S. Kostyukov, V. S. Gerasimov, A. E. Ershov, and E. N. Bulgakov

Giant interlayer magnetic exchange interaction and charge-spin coupling in a van der Waals magnetic interface driven by *p-d* coupling *(7 pages)* 075405
Hongxing Li, Wei-Bing Zhang, and Guanghui Zhou

Nonadiabatic quantum control of valley states in silicon *(13 pages)* 075406
Alan Gardin, Ross D. Monaghan, Tyler Whittaker, Rajib Rahman, and Giuseppe C. Tettamanzi

Topological edge and corner states and fractional corner charges in blue phosphorene *(14 pages)* 075407
Tenta Tani, Masaru Hitomi, Takuto Kawakami, and Mikito Koshino

Two-dimensional ferroelectricity induced by octahedral rotation distortion in perovskite oxides *(8 pages)* 075408
Ying Zhou, Shuai Dong, Changxun Shan, Ke Ji, and Junting Zhang

Electrically modulated anomalous phase shift in Andreev bound states mediated by chiral Majorana modes *(6 pages)* 075409
Yong Xu, Pei-Hao Fu, Lei Chen, Jun-Feng Liu, Jun Wang, and Hu Xu

Towards a quantum interface between spin waves and paramagnetic spin baths *(43 pages)* 075410
C. Gonzalez-Ballestero, Toeno van der Sar, and O. Romero-Isart

Edge states in a non-Hermitian topological crystalline insulator *(9 pages)* 075411
Qiu-Yue Xu, Feng Liu, Chui-Zhen Chen, and Dong-Hui Xu

Angle-resolved optically detected magnetic resonance as a tool for strain determination in nanostructures *(11 pages)* 075412
A. Bogucki, M. Goryca, A. Łopion, W. Pacuski, K. E. Połczyńska, J. Z. Domagała, M. Tokarczyk, T. Fąs, A. Golnik, and P. Kossacki

Enhanced interband tunneling in two-dimensional tunneling transistors through anisotropic energy dispersion *(7 pages)* 075413
Hengze Qu, Shiying Guo, Wenhan Zhou, Zhenhua Wu, Jiang Cao, Zhi Li, Haibo Zeng, and Shengli Zhang

Theoretical realization of two-dimensional half-metallicity and fully spin-polarized multiple nodal-line fermions in monolayer PrOBr *(9 pages)* 075414
Lei Jin, Xiaoming Zhang, Ying Liu, Xuefang Dai, and Guodong Liu

Nonlinear antidamping spin-orbit torque originating from intraband transport on the warped surface of a topological insulator *(10 pages)* 075415
Yong-Long Zhou, Hou-Jian Duan, Yong-jia Wu, Ming-Xun Deng, Lan Wang, Dimitrie Culcer, and Rui-Qiang Wang

Interaction of water with nitrogen-doped graphene *(10 pages)* 075416
Azim Fitri Zainul Abidin and Ikutaro Hamada

Excited-state band structure mapping *(12 pages)* 075417
M. Puppin, C. W. Nicholson, C. Monney, Y. Deng, R. P. Xian, J. Feldl, S. Dong, A. Dominguez, H. Hübener, A. Rubio, M. Wolf, L. Rettig, and R. Ernstorfer

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 105, NUMBER 7** **FEBRUARY 2022-15(I)**

Effects of biased and unbiased illuminations on two-dimensional electron gases in dopant-free GaAs/AlGaAs *(16 pages)* 075302
A. Shetty, F. Sfigakis, W. Y. Mak, K. Das Gupta, B. Buonacorsi, M. C. Tam, H. S. Kim, I. Farrer, A. F. Croxall, H. E. Beere, A. R. Hamilton, M. Pepper, D. G. Austing, S. A. Studenikin, A. Sachrajda, M. E. Reimer, Z. R. Wasilewski, D. A. Ritchie, and J. Baugh

Anisotropic *g*-tensors in hole quantum dots: Role of transverse confinement direction *(12 pages)* 075303
Jørgen Holme Qvist and Jeroen Danon

Monolayer CeI_2: An intrinsic room-temperature ferrovalley semiconductor *(8 pages)* 075304
Kang Sheng, Qiao Chen, Hong-Kuan Yuan, and Zhi-Yong Wang

Gate tuning of fractional quantum Hall states in an InAs two-dimensional electron gas *(6 pages)* 075305
S. Komatsu, H. Irie, T. Akiho, T. Nojima, T. Akazaki, and K. Muraki

Dynamic Friedel oscillations on the surface of a topological insulator *(8 pages)* 075306
V. A. Stephanovich, E. V. Kirichenko, V. K. Dugaev, and J. Barnaś

Nonclassical light from finite-range interactions in a two-dimensional quantum mirror *(11 pages)* 075307
Valentin Walther, Lida Zhang, Susanne F. Yelin, and Thomas Pohl

Hole-spin qubits in Ge nanowire quantum dots: Interplay of orbital magnetic field, strain, and growth direction *(23 pages)* 075308
Christoph Adelsberger, Mónica Benito, Stefano Bosco, Jelena Klinovaja, and Daniel Loss

Three-dimensional chiral Veselago lensing *(5 pages)* 075309
S. Tchoumakov, J. Cayssol, and A. G. Grushin

Corner states, hinge states, and Majorana modes in SnTe nanowires *(17 pages)* 075310
Nguyen Minh Nguyen, Wojciech Brzezicki, and Timo Hyart

Electron recoil effect in electrically tunable $MoSe_2$ monolayers *(16 pages)* 075311
Jonas Zipfel, Koloman Wagner, Marina A. Semina, Jonas D. Ziegler, Takashi Taniguchi, Kenji Watanabe, Mikhail M. Glazov, and Alexey Chernikov

Band structures of edge magnetoplasmon crystals *(13 pages)* 075312
Ken-ichi Sasaki

Emergent linear Rashba spin-orbit coupling offers fast manipulation of hole-spin qubits in germanium *(8 pages)* 075313
Yang Liu, Jia-Xin Xiong, Zhi Wang, Wen-Long Ma, Shan Guan, Jun-Wei Luo, and Shu-Shen Li

Surface physics, nanoscale physics, low-dimensional systems

Dispersion forces and equilibrium distance between deposited rough films in contact *(12 pages)* 075401
I. A. Soldatenkov, F. I. Stepanov, and V. B. Svetovoy

Structural, electronic, and transport properties of quintuple atomic Janus monolayers Ga_2SX_2 (X = O, S, Se, Te): First-principles predictions *(11 pages)* 075402
Nguyen N. Hieu, Huynh V. Phuc, A. I. Kartamyshev, and Tuan V. Vu

Robustness of spin-polarized edge states in a two-dimensional topological semimetal without inversion symmetry *(9 pages)* 075403
José D. Mella and Luis E. F. Foa Torres

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B THIRD SERIES, VOLUME 105, NUMBER 7 FEBRUARY 2022-15(I)

Effect of disorder on density of states and conductivity in higher-order Van Hove singularities in two-dimensional bands *(16 pages)* 075144
Anirudh Chandrasekaran and Joseph J. Betouras

Role of spin-phonon and electron-phonon interactions in the phonon renormalization of $(Eu_{1-x}Bi_x)_2Ir_2O_7$ across the metal-insulator phase transition: Temperature-dependent Raman and x-ray studies *(14 pages)* 075145
Anoop Thomas, Prachi Telang, Kshiti Mishra, Martin Cesnek, Jozef Bednarcik, D. V. S. Muthu, Surjeet Singh, and A. K. Sood

Electronic spectra with paramagnon fractionalization in the single-band Hubbard model *(17 pages)* 075146
Eric Mascot, Alexander Nikolaenko, Maria Tikhanovskaya, Ya-Hui Zhang, Dirk K. Morr, and Subir Sachdev

Unconventional quantum phase transitions in a one-dimensional Lieb-Schultz-Mattis system *(16 pages)* 075147
Wayne Zheng, D. N. Sheng, and Yuan-Ming Lu

Nonequilibrium thermal state of a voltage-biased Mott insulator *(11 pages)* 075149
Arijit Dutta and Pinaki Majumdar

Unified picture for the pressure-controlled band gap in inorganic halide perovskites: Role of strain-phonon and phonon-phonon couplings *(10 pages)* 075150
Weiwei Zhang, Gang Tang, M. P. K. Sahoo, Yunting Liang, and Yajun Zhang

Vibrational properties of $CuInP_2S_6$ across the ferroelectric transition *(10 pages)* 075151
Sabine N. Neal, Sobhit Singh, Xiaochen Fang, Choongjae Won, Fei-ting Huang, Sang-Wook Cheong, Karin M. Rabe, David Vanderbilt, and Janice L. Musfeldt

Semiconductors I: bulk

Tunneling spin current in systems with spin degeneracy *(11 pages)* 075201
Yuta Suzuki

Wavelet resolved coherence beating in the Overhauser field of a thermal nuclear spin ensemble *(13 pages)* 075202
Ekrem Taha Güldeste and Ceyhun Bulutay

Spin and valley ordering of fractional quantum Hall states in monolayer graphene *(12 pages)* 075203
Ngoc Duc Le and Thierry Jolicoeur

Scrutinizing the Debye plasma model: Rydberg excitons unravel the properties of low-density plasmas in semiconductors *(17 pages)* 075204
Heinrich Stolz, Dirk Semkat, Rico Schwartz, Julian Heckötter, Marc Aßmann, Wolf-Dietrich Kraeft, Holger Fehske, and Manfred Bayer

Low-temperature acanthite-like phase of Cu_2S: Electronic and transport properties *(11 pages)* 075205
Ho Ngoc Nam, Katsuhiro Suzuki, Tien Quang Nguyen, Akira Masago, Hikari Shinya, Tetsuya Fukushima, and Kazunori Sato

Semiconductors II: surfaces, interfaces, microstructures, and related topics

Size effect and transient phonon transport mechanism in approach-to-equilibrium molecular dynamics simulations *(8 pages)* 075301
Yufei Sheng, Yue Hu, Zheyong Fan, and Hua Bao

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 105, NUMBER 7** **FEBRUARY 2022-15(I)**

Band geometry from position-momentum duality at topological band crossings *(8 pages)* 075127
Yu-Ping Lin and Wei-Han Hsiao

Topology in non-Hermitian Chern insulators with skin effect *(8 pages)* 075128
Yi-Xin Xiao and C. T. Chan

Qubit based on spin-singlet Yu-Shiba-Rusinov states *(16 pages)* 075129
Luka Pavešić and Rok Žitko

Lowest Landau level theory of the bosonic Jain states *(17 pages)* 075130
Hart Goldman and T. Senthil

Dissipation-assisted operator evolution method for capturing hydrodynamic transport *(10 pages)* 075131
Tibor Rakovszky, C. W. von Keyserlingk, and Frank Pollmann

Quantum phases of two-dimensional $\mathbb{Z}_2$ gauge theory coupled to single-component fermion matter *(20 pages)* . . . 075132
Umberto Borla, Bhilahari Jeevanesan, Frank Pollmann, and Sergej Moroz

Exceptional hexagonal warping effect in multi-Weyl semimetals *(7 pages)* 075133
Debashree Chowdhury, Ayan Banerjee, and Awadhesh Narayan

Selection rule for the photoinduced phase transition dominated by anisotropy of strain in Ti_3O_5 *(11 pages)* 075134
Takuo Saiki, Taishi Yoshida, Kaoru Akimoto, Daigo Indo, Mitsutoshi Arizono, Tetsuji Okuda, and Takuro Katsufuji

Characterizing fractional topological phases of lattice bosons near the first Mott lobe *(10 pages)* 075135
Julian Boesl, Rohit Dilip, Frank Pollmann, and Michael Knap

Spin texture in doped Mott insulators with spin-orbit coupling *(15 pages)* 075136
Shuai A. Chen, Zheng-Yu Weng, and Jan Zaanen

Phonon spectrum of $Pr_2Zr_2O_7$ and $Pr_2Ir_2O_7$ as evidence of coupling of the lattice with electronic and magnetic degrees of freedom *(7 pages)* 075137
Yuanyuan Xu, Huiyuan Man, Nan Tang, Takumi Ohtsuki, Santu Baidya, Satoru Nakatsuji, David Vanderbilt, and Natalia Drichko

Electronic structure of rare-earth semiconducting ErN thin films determined with synchrotron radiation photoemission spectroscopy and first-principles analysis *(8 pages)* 075138
Krithika Upadhya, Rajendra Kumar, Madhusmita Baral, Shilpa Tripathi, S. N. Jha, Tapas Ganguli, and Bivas Saha

Stroboscopic Hamiltonian engineering in the low-frequency regime with a one-dimensional quantum processor *(13 pages)* 075140
V. M. Bastidas, T. Haug, C. Gravel, L.-C. Kwek, W. J. Munro, and Kae Nemoto

Giant magnetoresistance, Fermi-surface topology, Shoenberg effect, and vanishing quantum oscillations in the type-II Dirac semimetal candidates $MoSi_2$ and WSi_2 *(15 pages)* 075141
Orest Pavlosiuk, Przemysław Wojciech Swatek, Jian-Ping Wang, Piotr Wiśniewski, and Dariusz Kaczorowski

Triplet resonating valence bond theory and transition metal chalcogenides *(14 pages)* 075142
Elio J. König, Yashar Komijani, and Piers Coleman

Interplay of interactions and disorder at the charge density wave transition of two-dimensional Dirac semimetals *(10 pages)* 075143
Mikolaj D. Uryszek and Frank Krüger

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B **THIRD SERIES, VOLUME 105, NUMBER 7** **FEBRUARY 2022-15(I)**

Revealing a charge-density-wave gap in the predicted weak topological insulator HoSbTe *(7 pages)* 075111
J. L. Liu, R. Liu, M. Yang, L. Y. Cao, B. X. Gao, L. Wang, A. F. Fang, Y. G. Shi, Z. P. Yin, and R. Y. Chen

Learned optimizers for analytic continuation *(10 pages)* 075112
Dongchen Huang and Yi-feng Yang

Optical spectroscopy and ultrafast pump-probe study of the structural phase transition in $1T'$-$TaTe_2$ *(7 pages)* 075113
T. C. Hu, Q. Wu, Z. X. Wang, L. Y. Shi, Q. M. Liu, L. Yue, S. J. Zhang, R. S. Li, X. Y. Zhou, S. X. Xu, D. Wu, T. Dong, and N. L. Wang

Charge ordering in Ir dimers in the ground state of $Ba_5AlIr_2O_{11}$ *(7 pages)* 075114
Vamshi M. Katukuri, Xingye Lu, D. E. McNally, Marcus Dantz, Vladimir N. Strocov, M. Moretti Sala, M. H. Upton, J. Terzic, G. Cao, Oleg V. Yazyev, and Thorsten Schmitt

Renormalization group and stability in the exciton Bose liquid *(15 pages)* 075115
Ethan Lake

Local density of states of the interacting resonant level model at zero temperature *(7 pages)* 075116
G. Camacho, P. Schmitteckert, and S. T. Carr

Thermalization of many many-body interacting Sachdev-Ye-Kitaev models *(8 pages)* 075117
Jan C. Louw and Stefan Kehrein

Superconducting pairing symmetry in the kagome-lattice Hubbard model *(8 pages)* 075118
Chenyue Wen, Xingchuan Zhu, Zhisong Xiao, Ning Hao, Rubem Mondaini, Huaiming Guo, and Shiping Feng

Prediction of orbital-selective Mott phases and block magnetic states in the quasi-one-dimensional iron chain $Ce_2O_2FeSe_2$ under hole and electron doping *(9 pages)* 075119
Ling-Fang Lin, Yang Zhang, Gonzalo Alvarez, Jacek Herbrych, Adriana Moreo, and Elbio Dagotto

Correlated physics in an artificial triangular anti-dot lattice *(11 pages)* 075120
Z. E. Krix, H. D. Scammell, and O. P. Sushkov

Interplay of orbital magnetic moment and chiral magnetic effect in Shubnikov–de Haas quantum oscillations *(12 pages)* 075121
Jinho Yang and Ki-seok Kim

Excitonic-insulator instability and Peierls distortion in one-dimensional semimetals *(10 pages)* 075122
Matteo Barborini, Matteo Calandra, Francesco Mauri, Ludger Wirtz, and Pierluigi Cudazzo

Basic formulation and first-principles implementation of nonlinear magneto-optical effects *(14 pages)* 075123
Haowei Chen, Meng Ye, Nianlong Zou, Bing-Lin Gu, Yong Xu, and Wenhui Duan

Robustness of Stark many-body localization in the J_1-J_2 Heisenberg model *(9 pages)* 075124
E. Vernek

Separation of Kondo lattice coherence from crystal electric field in $CeIn_3$ with Nd substitutions *(7 pages)* 075125
Jackson R. Badger, Rumika Miyawaki, Zach E. Brubaker, Peter Klavins, Rena Zieve, Tatsuma D. Matsuda, and Valentin Taufour

Characterizing bulk-boundary correspondence of one-dimensional non-Hermitian interacting systems by edge entanglement entropy *(8 pages)* 075126
Weitao Chen, Liangtao Peng, Hantao Lu, and Xiancong Lu

(Continued)

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).

PHYSICAL REVIEW B™

For editorial and subscription correspondence, please see inside front cover
(ISSN: 2469-9950)

PERIODICALS
Postmaster send address changes to:

APS Subscription Services
P.O. Box 41
Annapolis Junction, MD 20701

THIRD SERIES, VOLUME 105, NUMBER 7 *CONTENTS* **FEBRUARY 2022-15(I)**

ARTICLES

Electronic structure and strongly correlated systems

Electronic excitations of α-Fe_2O_3 heteroepitaxial films measured by resonant inelastic x-ray scattering at the Fe *L* edge *(10 pages)* 075101
David S. Ellis, Ru-Pan Wang, Deniz Wong, Jason K. Cooper, Christian Schulz, Yi-De Chuang, Yifat Piekner, Daniel A. Grave, Markus Schleuning, Dennis Friedrich, Frank M. F. de Groot, and Avner Rothschild

Engineering antiferromagnetic skyrmions and antiskyrmions at metallic interfaces *(6 pages)* 075102
Arnob Mukherjee, Deepak S. Kathyat, and Sanjeev Kumar

Polarization and entanglement spectrum in non-Hermitian systems *(12 pages)* 075103
Carlos Ortega-Taberner, Lukas Rødland, and Maria Hermanns

Finite-temperature quantum discordant criticality *(8 pages)* 075104
Poetri Sonya Tarabunga, Tiago Mendes-Santos, Fabrizio Illuminati, and Marcello Dalmonte

Multidimensional multiphoton momentum microscopy of the anisotropic Ag(110) surface *(13 pages)* 075105
Andi Li, Marcel Reutzel, Zehua Wang, David Schmitt, Marius Keunecke, Wiebke Bennecke, G. S. Matthijs Jansen, Daniel Steil, Sabine Steil, Dino Novko, Branko Gumhalter, Stefan Mathias, and Hrvoje Petek

Time-dependent exchange-correlation potential in lieu of self-energy *(6 pages)* 075106
F. Aryasetiawan

Structural analysis based on unsupervised learning: Search for a characteristic low-dimensional space by local structures in atomistic simulations *(18 pages)* 075107
Ryo Tamura, Momo Matsuda, Jianbo Lin, Yasunori Futamura, Tetsuya Sakurai, and Tsuyoshi Miyazaki

Strong anisotropic Hall effect in single-crystalline $CeMn_2Ge_2$ with helical spin order *(9 pages)* 075108
Longmeng Xu, Yuming Bai, Gaoshang Gong, Fangyuan Song, Zhaohu Li, Yuyan Han, Langsheng Ling, and Zhaoming Tian

Thickness-dependent topological phase transition and Rashba-like preformed topological surface states of α-Sn(001) thin films on InSb(001) *(8 pages)* 075109
K. H. M. Chen, K. Y. Lin, S. W. Lien, S. W. Huang, C. K. Cheng, H. Y. Lin, C.-H. Hsu, T.-R. Chang, C.-M. Cheng, M. Hong, and J. Kwo

Observation of a van Hove singularity of a surface Fermi arc with prominent coupling to phonons in a Weyl semimetal *(9 pages)* 075110
Zhenyu Wang, Cheng-Yi Huang, Chia-Hsiu Hsu, Hiromasa Namiki, Tay-Rong Chang, Feng-Chuan Chuang, Hsin Lin, Takao Sasagawa, Vidya Madhavan, and Yoshinori Okada

Copyright 2022 by American Physical Society

(Continued)

2469-9950(20220215)105:7;1-B

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).