

SCI Papers of ITP in 2021

No.	Article Title	Authors	Source Title	Year	Volume	Issue	Page	DOI Link
1	(DD ⁺ - ⁺)-D- ⁻ /- Hadronic Atom as a Key to Revealing the X(3872) Mystery	Zhang, Zhen-Hua; Guo, Feng-Kun	PHYSICAL REVIEW LETTERS	2021	127	1	12002	http://dx.doi.org/10.1103/PhysRevLett.127.012002
2	A chiral model for sterile neutrino	Liu, Chun; Reyimuaji, Yakefu	JOURNAL OF HIGH ENERGY PHYSICS	2021		12	75	http://dx.doi.org/10.1007/JHEP12(2021)075
3	A concise review of Rydberg atom based quantum computation and quantum simulation*	Wu, Xiaoling; Liang, Xinhui; Tian, Yaoqi; Yang, Fan; Chen, Cheng; Liu, Yong-Chun; Tey, Meng Khoon; You, Li	CHINESE PHYSICS B	2021	30	2	20305	http://dx.doi.org/10.1088/1674-1056/abd76f
4	A detailed exploration of the EDGES 21cm absorption anomaly and axion-induced cooling	Li, Chuang; Houston, Nick; Li, Tianjun; Yang, Qiaoli; Zhang, Xin	INTERNATIONAL JOURNAL OF MODERN PHYSICS D	2021	30	6	2150041	http://dx.doi.org/10.1142/S0218271821500413
5	A diffraction phenomenon of gravitational waves: Poisson-Arago spot for gravitational waves	Cai, Rong-Gen	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	12	120461	http://dx.doi.org/10.1007/s11433-021-1792-3
6	A hybrid renormalization scheme for quasi light-front correlations in large-momentum effective theory	Ji, Xiangdong; Liu, Yizhuang; Schaefer, Andreas; Wang, Wei; Yang, Yi-Bo; Zhang, Jian-Hui; Zhao, Yong	NUCLEAR PHYSICS B	2021	964		115311	http://dx.doi.org/10.1016/j.nuclphysb.2021.115311
7	A jamming plane of sphere packings	Jin, Yuliang; Yoshino, Hajime	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2021	118	14	e2021794118	http://dx.doi.org/10.1073/pnas.2021794118
8	A new way to test the WIMP dark matter models	Cheng, Wei; He, Yuan; Diao, Jing-Wang; Pan, Yu; Zeng, Jun; Zhang, Jia-Wei	JOURNAL OF HIGH ENERGY PHYSICS	2021		8	124	http://dx.doi.org/10.1007/JHEP08(2021)124
9	A note on letters of Yangian invariants	He, Song; Li, Zhenjie	JOURNAL OF HIGH ENERGY PHYSICS	2021		2	155	http://dx.doi.org/10.1007/JHEP02(2021)155
10	A note on supergravity inflation in braneworld	Sabir, Mudassar; Ahmed, Waqas; Gong, Yungui; Hu, Shan; Li, Tianjun; Wu, Lina	INTERNATIONAL JOURNAL OF MODERN PHYSICS A	2021	36	7	2150056	http://dx.doi.org/10.1142/S0217751X21500561
11	A novel approach to probing new physics with neutral Gauge Boson couplings	Cai, Rong-Gen	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	2	221061	http://dx.doi.org/10.1007/s11433-020-1633-x
12	A refined trans-Planckian censorship conjecture	Cai, Rong-Gen; Wang, Shao-Jiang	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	1	210011	http://dx.doi.org/10.1007/s11433-020-1623-9
13	A stable spin-structure found in a 3-body system with spin-3 cold atoms and its role in N-body condensates	Liu, Y. M.; He, Y. Z.; Bao, C. G.	SCIENTIFIC REPORTS	2021	11	1	1792	http://dx.doi.org/10.1038/s41598-021-81133-7
14	A survey of heavy-heavy hadronic molecules	Dong, Xiang-Kun; Guo, Feng-Kun; Zou, Bing-Song	COMMUNICATIONS IN THEORETICAL PHYSICS	2021	73	12	125201	http://dx.doi.org/10.1088/1572-9494/ac27a2
15	A topic review on probing primordial black hole dark matter with scalar induced gravitational waves	Yuan, Chen; Huang, Qing-Guo	ISCIENCE	2021	24	8	102860	http://dx.doi.org/10.1016/j.isci.2021.102860
16	An adaptive shortest-solution guided decimation approach to sparse high-dimensional linear regression	Yu, Xue; Sun, Yifan; Zhou, Hai-Jun	SCIENTIFIC REPORTS	2021	11	1	24034	http://dx.doi.org/10.1038/s41598-021-03323-7
17	An explicit calculation of pseudo-goldstino mass at the leading three-loop level	Dai, Jianpeng; Liu, Tao; Yang, Jin Min	JOURNAL OF HIGH ENERGY PHYSICS	2021		6	175	http://dx.doi.org/10.1007/JHEP06(2021)175
18	Angular momentum projection in the deformed relativistic Hartree-Bogoliubov theory in continuum	Sun, Xiang-Xiang; Zhou, Shan-Gui	PHYSICAL REVIEW C	2021	104	6	64319	http://dx.doi.org/10.1103/PhysRevC.104.064319
19	Anomaly-free leptophilic axionlike particle and its flavor violating tests	Han, C.; Lopez-Ibanez, M. L.; Melis, A.; Vives, O.; Yang, J. M.	PHYSICAL REVIEW D	2021	103	3	35028	http://dx.doi.org/10.1103/PhysRevD.103.035028
20	Associative memory model with arbitrary Hebbian length	Jiang, Zijian; Zhou, Jianwen; Hou, Tianqi; Wong, K. Y. Michael; Huang, Haiping	PHYSICAL REVIEW E	2021	104	6	64306	http://dx.doi.org/10.1103/PhysRevE.104.064306
21	Axial shape asymmetry and high-spin states in nuclei with Z=100 suggested by the projected total energy surface approach	Ya, Tu; Chen, Yong-Jing; Chen, Yong-Shou; Gao, Zao-Chun; Liu, Ling	PHYSICAL REVIEW C	2021	104	1	14306	http://dx.doi.org/10.1103/PhysRevC.104.014306

22	Axion and dark photon limits from Crab Nebula high-energy gamma rays	Bi, Xiaojun; Gao, Yu; Guo, Junguang; Houston, Nick; Li, Tianjun; Xu, Fangzhou; Zhang, Xin	PHYSICAL REVIEW D	2021	103	4	43018	http://dx.doi.org/10.1103/PhysRevD.103.043018
23	Axionlike particle inflation and dark matter	Cheng, Wei; Bian, Ligong; Zhou, Yu-Feng	PHYSICAL REVIEW D	2021	104	6	63010	http://dx.doi.org/10.1103/PhysRevD.104.063010
24	Balanced biosynthesis and trigger threshold resulting in a double adder mechanism of cell size control	Li, Leilei	COMMUNICATIONS IN THEORETICAL PHYSICS	2021	73	8	85601	http://dx.doi.org/10.1088/1572-9494/ac0135
25	Bio-assembling Macro-Scale, Lumenized Airway Tubes of Defined Shape via Multi-Organoid Patterning and Fusion	Liu, Ye; Dabrowska, Catherine; Mavousian, Antranik; Strauss, Bernhard; Meng, Fanlong; Mazzaglia, Corrado; Ouaras, Karim; Macintosh, Callum; Terentjev, Eugene; Lee, Joo-Hyeon; Huang, Yan Yan Shery	ADVANCED SCIENCE	2021	8	9	2003332	http://dx.doi.org/10.1002/advs.202003332
26	Boltzmann machines as two-dimensional tensor networks	Li, Sujie; Pan, Feng; Zhou, Pengfei; Zhang, Pan	PHYSICAL REVIEW B	2021	104	7	75154	http://dx.doi.org/10.1103/PhysRevB.104.075154
27	Boosted Higgs boson jet reconstruction via a graph neural network	Guo, Jun; Li, Jinmian; Li, Tianjun; Zhang, Rao	PHYSICAL REVIEW D	2021	103	11	116025	http://dx.doi.org/10.1103/PhysRevD.103.116025
28	Bootstrapping a Two-Loop Four-Point Form Factor	Guo, Yuanhong; Wang, Lei; Yang, Gang	PHYSICAL REVIEW LETTERS	2021	127	15	151602	http://dx.doi.org/10.1103/PhysRevLett.127.151602
29	Bootstrapping octagons in reduced kinematics from A(2) cluster algebras	He, Song; Li, Zhenjie; Tang, Yichao; Yang, Qinglin	JOURNAL OF HIGH ENERGY PHYSICS	2021		10	84	http://dx.doi.org/10.1007/JHEP10(2021)084
30	Breakdown of quantum-classical correspondence and dynamical generation of entanglement	Tian, Chushun; Yang, Kun	PHYSICAL REVIEW B	2021	104	17	174302	http://dx.doi.org/10.1103/PhysRevB.104.174302
31	Breathing solitons induced by collision in dipolar Bose-Einstein condensates	Gao, Peng; Li, Xin; Yang, Zhan-Ying; Yang, Wen-Li; Yi, Su	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2021	54	13	135301	http://dx.doi.org/10.1088/1361-6455/ac01aa
32	Building up the spectrum of pentaquark states as hadronic molecules	Zou, Bing Song	SCIENCE BULLETIN	2021	66	13	1258-1259	http://dx.doi.org/10.1016/j.scib.2021.04.023
33	Chameleon dark energy can resolve the Hubble tension	Cai, Rong-Gen; Guo, Zong-Kuan; Li, Li; Wang, Shao-Jiang; Yu, Wang-Wei	PHYSICAL REVIEW D	2021	103	12	L121302	http://dx.doi.org/10.1103/PhysRevD.103.L121302
34	China's first step towards probing the expanding universe and the nature of gravity using a space borne gravitational wave antenna	Wu, Yue-Liang; Luo, Zi-Ren; Wang, Jian-Yu; Bai, Meng; Bian, Wei; Cai, Rong-Gen; Cai, Zhi-Ming; Cao, Jin; Chen, Di-Jun; Chen, Ling; Chen, Li-Sheng; Chen, Ming-Wei; Chen, Wei-Biao; Chen, Ze-Yi; Cong, Lin-Xiao; Deng, Jian-Feng; Dong, Xiao-Long; Duan, Li; Fan, Sen-Quan; Fan, Shou-Shan; Fang, Chao; Fang, Yuan; Feng, Ke; Feng, Pan; Feng, Zhun; Gao, Rui-Hong; Gao, Run-Lian; Guo, Zong-Kuan; He, Jian-Wu; He, Ji-Bo; Hou, Xia; Hu, Liang; Hu, Wen-Rui; Hu, Zhi-Qiang; Huang, Min-Jie; Jia, Jian-Jun; Jiang, Kai-Li; Jin, Gang; Jin, Hong-Bo; Kang, Qi; Lei, Jun-Gang; Li, Bo-Quan; Li, Dong-Jing; Li, Fan; Li, Hao-Si; Li, Hua-Wang; Li, Liu-Feng; Li, Wei; Li, Xiao-Kang; Li, Ying-Min; Li, Yong-Gui; Li, Yun-Peng; Li, Yu-Peng; Li, Zhe; Lin, Zhi-Yong; Liu, Chang; Liu, Dong-Bin; Liu, He-Shan; Liu, Hong; Liu, Peng; Liu, Yu-Rong; Lu, Zong-Yu; Luo, Hong-Wei; Ma, Fu-Li; Ma, Long-Fei; Ma, Xiao-Shan; Ma, Xin; Man, Yi-Chuan; Min, Jian; Niu, Yu; Peng, Jian-Kang; Peng, Xiao-Dong; Qi, Ke-Qi; Qiang, Li-E; Qiao, Cong-Feng; Qu, Ye-Xi; Ruan, Wen-Hong;	COMMUNICATIONS IN PHYSICS	2021	4	1	34	http://dx.doi.org/10.1038/s42005-021-00529-z
35	Chiral extrapolation of the charged-pion magnetic polarizability with Pade approximant	He, Fangcheng; Leinweber, Derek B.; Thomas, Anthony W.; Wang, Ping	PHYSICAL REVIEW D	2021	104	5	54506	http://dx.doi.org/10.1103/PhysRevD.104.054506
36	Circumventing spin-glass traps by microcanonical spontaneous symmetry breaking	Zhou, Hai-Jun; Liao, Qinyi	PHYSICAL REVIEW E	2021	103	4	42112	http://dx.doi.org/10.1103/PhysRevE.103.042112

37	Closed-orbit theory for the photodetachment rate in a static magnetic field transversely superimposed to an oscillatory electric field	Chen, X. J.; Titimbo, K.; Du, M. L.	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2021	54	7	75001	http://dx.doi.org/10.1088/1361-6455/abecd5
38	Cluster Configuration Spaces of Finite Type	Arkani-Hamed, Nima; He, Song; Lam, Thomas	SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS	2021	17		92	http://dx.doi.org/10.3842/SIGMA.2021.092
39	Competition of Superconductivity and Charge Density Wave in Selective Oxidized CsV3Sb5 Thin Flakes	Song, Yanpeng; Ying, Tianping; Chen, Xu; Han, Xu; Wu, Xianxin; Schnyder, Andreas P.; Huang, Yuan; Guo, Jian-gang; Chen, Xiaolong	PHYSICAL REVIEW LETTERS	2021	127	23	237001	http://dx.doi.org/10.1103/PhysRevLett.127.237001
40	Complete set of dimension-eight operators in the standard model effective field theory	Li, Hao-Lin; Ren, Zhe; Shu, Jing; Xiao, Ming-Lei; Yu, Jiang-Hao; Zheng, Yu-Hui	PHYSICAL REVIEW D	2021	104	1	15026	http://dx.doi.org/10.1103/PhysRevD.104.015026
41	Complete set of dimension-nine operators in the standard model effective field theory	Li, Hao-Lin; Ren, Zhe; Xiao, Ming-Lei; Yu, Jiang-Hao; Zheng, Yu-Hui	PHYSICAL REVIEW D	2021	104	1	15025	http://dx.doi.org/10.1103/PhysRevD.104.015025
42	Complete study on polarization of Upsilon(nS) hadroproduction at QCD next-to-leading order	Feng, Yu; Gong, Bin; Chang, Chao-Hsi; Wang, Jian-Xiong	CHINESE PHYSICS C	2021	45	1	13117	http://dx.doi.org/10.1088/1674-1137/abc682
43	Complexity growth of operators in the SYK model and in JT gravity	Jian, Shao-Kai; Swingle, Brian; Xian, Zhuo-Yu	JOURNAL OF HIGH ENERGY PHYSICS	2021		3	14	http://dx.doi.org/10.1007/JHEP03(2021)014
44	Conditions for metachronal coordination in arrays of model cilia	Meng, Fanlong; Bennett, Rachel R.; Uchida, Nariya; Golestanian, Ramin	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2021	118	32	e210282 8118	http://dx.doi.org/10.1073/pnas.2102828118
45	Conformal transformation with multiple scalar fields and geometric property of field space with Einstein-like solutions	Tang, Yong; Wu, Yue-Liang	PHYSICAL REVIEW D	2021	104	6	64042	http://dx.doi.org/10.1103/PhysRevD.104.064042
46	Conservation of the Stokes-Einstein relation in supercooled water	Ren, Gan; Wang, Yanting	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2021	23	43	24541- 24544	http://dx.doi.org/10.1039/d1cp03972e
47	Consistent explanation for the cosmic-ray positron excess in p-wave Sommerfeld-enhanced dark matter annihilation	Ding, Yu-Chen; Ku, Yu-Lin; Wei, Chun-Cheng; Zhou, Yu-Feng	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021		9	5	http://dx.doi.org/10.1088/1475-7516/2021/09/005
48	Constraining Cosmological Phase Transitions with the Parkes Pulsar Timing Array	Xue, Xiao; Bian, Ligong; Shu, Jing; Yuan, Qiang; Zhu, Xingjiang; Bhat, N. D. Ramesh; Dai, Shi; Feng, Yi; Goncharov, Boris; Hobbs, George; Howard, Eric; Manchester, Richard N.; Russell, Christopher J.; Reardon, Daniel J.; Shannon, Ryan M.; Spiewak, Renee; Thyagarajan, Nithyanandan; Wang, Jingbo	PHYSICAL REVIEW LETTERS	2021	127	25	251303	http://dx.doi.org/10.1103/PhysRevLett.127.251303
49	Constraining light dark matter upscattered by ultrahigh-energy cosmic rays	Xia, Chen; Xu, Yan-Hao; Zhou, Yu-Feng	NUCLEAR PHYSICS B	2021	969		115470	http://dx.doi.org/10.1016/j.nuclphysb.2021.115470
50	Constraining nonrelativistic RG flows with holography	Cremonini, Sera; Li, Li; Ritchie, Kyle; Tang, Yuezhong	PHYSICAL REVIEW D	2021	103	4	46006	http://dx.doi.org/10.1103/PhysRevD.103.046006
51	Constraints on a mixed model of dark matter particles and primordial black holes from the galactic 511 keV line	Cai, Rong-Gen; Ding, Yu-Chen; Yang, Xing-Yu; Zhou, Yu-Feng	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021		3	57	http://dx.doi.org/10.1088/1475-7516/2021/03/057
52	Controlled fermion mixing and FCNCs in a Delta(27) 3+1 Higgs Doublet Model	Carcamo Hernandez, A. E.; Varzielas, Ivo de Medeiros; Lopez-Ibanez, M. L.; Melis, Aurora	JOURNAL OF HIGH ENERGY PHYSICS	2021		5	215	http://dx.doi.org/10.1007/JHEP05(2021)215
53	Controlled generation of self-sustained oscillations in complex artificial neural networks	Liu, Chang; Dong, Jia-Qi; Chen, Qing-Jian; Huang, Zi-Gang; Huang, Liang; Zhou, Hai-Jun; Lai, Ying-Cheng	CHAOS	2021	31	11	113127	http://dx.doi.org/10.1063/5.0069333
54	CopulaNet: Learning residue co-evolution directly from multiple sequence alignment for protein structure prediction	Ju, Fusong; Zhu, Jianwei; Shao, Bin; Kong, Lupeng; Liu, Tie-Yan; Zheng, Wei-Mou; Bu, Dongbo	NATURE COMMUNICATIONS	2021	12	1	2535	http://dx.doi.org/10.1038/s41467-021-22869-8

55	Cosmic ray boosted sub-GeV gravitationally interacting dark matter in direct detection (vol 12, 072, 2020)	Wang, Wenyu; Wu, Lei; Yang, Jin Min; Zhou, Hang; Zhu, Bin	JOURNAL OF HIGH ENERGY PHYSICS	2021		2	52	http://dx.doi.org/10.1007/JHEP02(2021)052
56	Cosmological implications of a B - L charged hidden scalar: leptogenesis and gravitational waves	Bian, Ligong; Cheng, Wei; Guo, Huai-Ke; Zhang, Yongchao	CHINESE PHYSICS C	2021	45	11	113104	http://dx.doi.org/10.1088/1674-1137/ac1e09
57	Coupled-channel effects of the $\Sigma(\bar{c})\bar{D}$ - $\Lambda(2595)\bar{D}$ over-bar over line system and molecular nature of the P-c pentaquark states from one-boson exchange model	Yalikun, Nijjati; Lin, Yong-Hui; Guo, Feng-Kun; Kamiya, Yuki; Zou, Bing-Song	PHYSICAL REVIEW D	2021	104	9	94039	http://dx.doi.org/10.1103/PhysRevD.104.094039
58	Coupled-Channel Interpretation of the LHCb Double-J/psi Spectrum and Hints of a New State Near the J/psi J/psi Threshold	Dong, Xiang-Kun; Baru, Vadim; Guo, Feng-Kun; Hanhart, Christoph; Nefediev, Alexey	PHYSICAL REVIEW LETTERS	2021	126	13	132001	http://dx.doi.org/10.1103/PhysRevLett.126.132001
59	Demonstration of the hadron mass origin from the QCD trace anomaly	He, Fangcheng; Sun, Peng; Yang, Yi-Bo	PHYSICAL REVIEW D	2021	104	7	74507	http://dx.doi.org/10.1103/PhysRevD.104.074507
60	Detecting an axion-like particle with machine learning at the LHC	Ren, Jie; Wang, Daohan; Wu, Lei; Yang, Jin Min; Zhang, Mengchao	JOURNAL OF HIGH ENERGY PHYSICS	2021		11	138	http://dx.doi.org/10.1007/JHEP11(2021)138
61	Detecting warm dark matter by the stochastic gravitational waves	Pi, Shi	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	9	290431	http://dx.doi.org/10.1007/s11433-021-1733-0
62	Determination of the critical exponents in dissipative phase transitions: Coherent anomaly approach	Jin, Jiasen; He, Wen-Bin; Iemini, Fernando; Ferreira, Diego; Wang, Ying-Dan; Chesì, Stefano; Fazio, Rosario	PHYSICAL REVIEW B	2021	104	21	214301	http://dx.doi.org/10.1103/PhysRevB.104.214301
63	Determining the nonequilibrium criticality of a Gardner transition via a hybrid study of molecular simulations and machine learning	Li, Huaping; Jin, Yuliang; Jiang, Ying; Chen, Jeff Z. Y.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2021	118	11	e2017392118	http://dx.doi.org/10.1073/pnas.2017392118
64	Dilatancy, shear jamming, and a generalized jamming phase diagram of frictionless sphere packings	Babu, Varghese; Pan, Deng; Jin, Yuliang; Chakraborty, Bulbul; Sastry, Srikanth	SOFT MATTER	2021	17	11	3121-3127	http://dx.doi.org/10.1039/d0sm02186e
65	Distinguishing quantum features in classical propagation	Titimbo, K.; Lando, G. M.; de Almeida, A. M. Ozorio	PHYSICA SCRIPTA	2021	96	1	15219	http://dx.doi.org/10.1088/1402-4896/abc9
66	Distribution Amplitudes of K^* and ϕ at the Physical Pion Mass from Lattice QCD	Hua, Jun; Chu, Min-Huan; Sun, Peng; Wang, Wei; Xu, Ji; Yang, Yi-Bo; Zhang, Jian-Hui; Zhang, Qi-An	PHYSICAL REVIEW LETTERS	2021	127	6	62002	http://dx.doi.org/10.1103/PhysRevLett.127.062002
67	Do the observational data favor a local void?	Cai, Rong-Gen; Ding, Jia-Feng; Guo, Zong-Kuan; Wang, Shao-Jiang; Yu, Wang-Wei	PHYSICAL REVIEW D	2021	103	12	123539	http://dx.doi.org/10.1103/PhysRevD.103.123539
68	D-s-meson leading-twist distribution amplitude within the QCD sum rules and its application to the B-s -> D-s transition form factor	Zhang, Yi; Zhong, Tao; Fu, Hai-Bing; Cheng, Wei; Wu, Xing-Gang	PHYSICAL REVIEW D	2021	103	11	114024	http://dx.doi.org/10.1103/PhysRevD.103.114024
69	Effect of deuteron breakup on the deuteron-Xi correlation function	Ogata, Kazuyuki; Fukui, Tokuro; Kamiya, Yuki; Ohnishi, Akira	PHYSICAL REVIEW C	2021	103	6	65205	http://dx.doi.org/10.1103/PhysRevC.103.065205
70	Effective field theory perspective on next-to-minimal composite Higgs models	Qi, Yong-Hui; Yu, Jiang-Hao; Zhu, Shou-Hua	PHYSICAL REVIEW D	2021	103	1	15013	http://dx.doi.org/10.1103/PhysRevD.103.015013
71	Effective picture of bubble expansion	Cai, Rong-Gen; Wang, Shao-Jiang	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021		3	96	http://dx.doi.org/10.1088/1475-7516/2021/03/096
72	Effective radius for production of baryon-antibaryon pairs from $\psi(\prime)$ decays	Wu, Shu-Ming; Wu, Jia-Jun; Zou, Bing-Song	PHYSICAL REVIEW D	2021	104	5	54018	http://dx.doi.org/10.1103/PhysRevD.104.054018
73	Eigen microstates and their evolutions in complex systems	Sun, Yu; Hu, Gaoke; Zhang, Yongwen; Lu, Bo; Lu, Zhenghui; Fan, Jingfang; Li, Xiaoteng; Deng, Qimin; Chen, Xiaosong	COMMUNICATIONS IN THEORETICAL PHYSICS	2021	73	6	65603	http://dx.doi.org/10.1088/1572-9494/abf127
74	Eigenvalue spectrum of neural networks with arbitrary Hebbian length	Zhou, Jianwen; Jiang, Zijian; Hou, Tianqi; Chen, Ziming; Wong, K. Y. Michael; Huang, Haiping	PHYSICAL REVIEW E	2021	104	6	64307	http://dx.doi.org/10.1103/PhysRevE.104.064307

75	Emergence of a Sharp Quantum Collective Mode in a One-Dimensional Fermi Polaron	Dolgirev, Pavel E.; Qu, Yi-Fan; Zvonarev, Mikhail B.; Shi, Tao; Demler, Eugene	PHYSICAL REVIEW X	2021	11	4	41015	http://dx.doi.org/10.1103/PhysRevX.11.041015
76	Emergent criticality and universality class of the finite-temperature charge-density-wave transition in lattice Bose gases within optical cavities	He, Liang; Yi, Su	PHYSICAL REVIEW A	2021	103	5	53312	http://dx.doi.org/10.1103/PhysRevA.103.053312
77	Engineering analog quantum chemistry Hamiltonians using cold atoms in optical lattices	Arguello-Luengo, Javier; Shi, Tao; Gonzalez-Tudela, Alejandro	PHYSICAL REVIEW A	2021	103	4	43318	http://dx.doi.org/10.1103/PhysRevA.103.043318
78	Equilibrium free-energy differences from a linear nonequilibrium equality	Li, Geng; Tu, Z. C.	PHYSICAL REVIEW E	2021	103	3	32146	http://dx.doi.org/10.1103/PhysRevE.103.032146
79	Evaporating black holes: Constraints on anomalous emission mechanisms	Yuan, Chen; Brito, Richard; Cardoso, Vitor	PHYSICAL REVIEW D	2021	104	12	124024	http://dx.doi.org/10.1103/PhysRevD.104.124024
80	Evidence for different gravitational-wave sources in the NANOGrav dataset	Bian, Ligong; Cai, Rong-Gen; Liu, Jing; Yang, Xing-Yu; Zhou, Ruiyu	PHYSICAL REVIEW D	2021	103	8	L081301	http://dx.doi.org/10.1103/PhysRevD.103.L081301
81	Explaining the Many Threshold Structures in the Heavy-Quark Hadron Spectrum	Dong, Xiang-Kun; Guo, Feng-Kun; Zou, Bing-Song	PHYSICAL REVIEW LETTERS	2021	126	15	152001	http://dx.doi.org/10.1103/PhysRevLett.126.152001
82	Exploiting the photonic nonlinearity of free-space subwavelength arrays of atoms	Rusconi, Cosimo C.; Shi, Tao; Cirac, J. Ignacio	PHYSICAL REVIEW A	2021	104	3	33718	http://dx.doi.org/10.1103/PhysRevA.104.033718
83	Femtoscopic Study of N Xi Interaction and Search for the H Dibaryon State Around the N Xi Threshold	Ohnishi, Akira; Kamiya, Y.; Sasaki, K.; Fukui, T.; Hatsuda, T.; Hyodo, T.; Morita, K.; Ogata, K.	FEW-BODY SYSTEMS	2021	62	3	42	http://dx.doi.org/10.1007/s00601-021-01626-z
84	Feynman Integrals and Scattering Amplitudes from Wilson Loops	He, Song; Li, Zhenjie; Yang, Qinglin; Zhang, Chi	PHYSICAL REVIEW LETTERS	2021	126	23	231601	http://dx.doi.org/10.1103/PhysRevLett.126.231601
85	Fluctuating Nature of Light-Enhanced d-Wave Superconductivity: A Time-Dependent Variational Non-Gaussian Exact Diagonalization Study	Wang, Yao; Shi, Tao; Chen, Cheng-Chien	PHYSICAL REVIEW X	2021	11	4	41028	http://dx.doi.org/10.1103/PhysRevX.11.041028
86	Folding nucleus and unfolding dynamics of protein 2GB1	Wei, Xuefeng; Wang, Yanting	CHINESE PHYSICS B	2021	30	2	28703	http://dx.doi.org/10.1088/1674-1056/abbfa
87	From high T-c to low T-c: Multiorbital effects in transition metal oxides	Klett, Michael; Schwemmer, Tilman; Wolf, Sebastian; Wu, Xianxin; Riegler, David; Dittmaier, Andreas; Di Sante, Domenico; Li, Gang; Hanke, Werner; Rachel, Stephan; Thomale, Ronny	PHYSICAL REVIEW B	2021	104	10	L100502	http://dx.doi.org/10.1103/PhysRevB.104.L100502
88	Further study of f(0)(1710) with the coupled-channel approach and the hadron molecular picture	Wang, Zheng-Li; Zou, Bing-Song	PHYSICAL REVIEW D	2021	104	11	114001	http://dx.doi.org/10.1103/PhysRevD.104.114001
89	Gluino-SUGRA scenarios in light of FNAL muon g-2 anomaly	Li, Zhuang; Liu, Guo-Li; Wang, Fei; Yang, Jin Min; Zhang, Yang	JOURNAL OF HIGH ENERGY PHYSICS	2021		12	219	http://dx.doi.org/10.1007/JHEP12(2021)219
90	Gluon gravitational form factors at large momentum transfer	Tong, Xuan-Bo; Ma, Jian-Ping; Yuan, Feng	PHYSICS LETTERS B	2021	823		136751	http://dx.doi.org/10.1016/j.physletb.2021.136751
91	Gluons in charmoniumlike states	Sun, Wei; Chen, Ying; Sun, Peng; Yang, Yi-Bo	PHYSICAL REVIEW D	2021	103	9	94503	http://dx.doi.org/10.1103/PhysRevD.103.094503
92	Graphic method for arbitrary n-body phase space	Jing, Hao-Jie; Shen, Chao-Wei; Guo, Feng-Kun	SCIENCE BULLETIN	2021	66	7	653-656	http://dx.doi.org/10.1016/j.scib.2020.10.009
93	Gravitational and electromagnetic radiation from binary black holes with electric and magnetic charges: elliptical orbits on a cone	Liu, Lang; Christiansen, Oyvind; Ruan, Wen-Hong; Guo, Zong-Kuan; Cai, Rong-Gen; Kim, Sang Pyo	EUROPEAN PHYSICAL JOURNAL C	2021	81	11	1048	http://dx.doi.org/10.1140/epjc/s10052-021-09849-4
94	Gravitational wave from axionlike particle inflation	Cheng, Wei; Qian, Tao; Yu, Qing; Zhou, Hua; Zhou, Rui-Yu	PHYSICAL REVIEW D	2021	104	10	103502	http://dx.doi.org/10.1103/PhysRevD.104.103502
95	Gravitational waves from minisplit SUSY	Fornal, Bartosz; Haggi, Barmak Shams Es; Yu, Jiang-Hao; Zhao, Yue	PHYSICAL REVIEW D	2021	104	11	115005	http://dx.doi.org/10.1103/PhysRevD.104.115005
96	Gravitational waves from resonant amplification of curvature perturbations during inflation	Peng, Zhi-Zhang; Fu, Chengjie; Liu, Jing; Guo, Zong-Kuan; Cai, Rong-Gen	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021		10	50	http://dx.doi.org/10.1088/1475-7516/2021/10/050
97	Gravitational waves from the phase transition in the B-LSSM	Dong, Xing-Xing; Feng, Tai-Fu; Zhang, Hai-Bin; Zhao, Shu-Min; Yang, Jin-Lei	JOURNAL OF HIGH ENERGY PHYSICS	2021		12	52	http://dx.doi.org/10.1007/JHEP12(2021)052
98	Gravitational waves induced by the local-type non-Gaussian curvature perturbations	Yuan, Chen; Huang, Qing-Guo	PHYSICS LETTERS B	2021	821		136606	http://dx.doi.org/10.1016/j.physletb.2021.136606

99	GUT-scale constrained SUSY in light of new muon g-2 measurement	Wang, Fei; Wu, Lei; Xiao, Yang; Yang, Jin Min; Zhang, Yang	NUCLEAR PHYSICS B	2021	970		115486	http://dx.doi.org/10.1016/j.nuclphysb.2021.115486
100	Heat Modulation on Target Thermal Bath via Coherent Auxiliary Bath	Yu, Wen-Li; Li, Tao; Li, Hai; Zhang, Yun; Zou, Jian; Wang, Ying-Dan	ENTROPY	2021	23	9	1183	http://dx.doi.org/10.3390/e23091183
101	Heavy bino and slepton for muon g-2 anomaly	Gu, Yuchao; Liu, Ning; Su, Liangliang; Wang, Daohan	NUCLEAR PHYSICS B	2021	969		115481	http://dx.doi.org/10.1016/j.nuclphysb.2021.115481
102	Hidden charm pentaquark states in a diquark model	Shi, Pan-Pan; Huang, Fei; Wang, Wen-Ling	EUROPEAN PHYSICAL JOURNAL A	2021	57	7	237	http://dx.doi.org/10.1140/epja/s10050-021-00542-4
103	Hidden charm tetraquark states in a diquark model	Shi, Pan-Pan; Huang, Fei; Wang, Wen-Ling	PHYSICAL REVIEW D	2021	103	9	94038	http://dx.doi.org/10.1103/PhysRevD.103.094038
104	Higgs boson decays with lepton flavor violation in the B - L symmetric SSM	Zhang, Ze-Ning; Zhang, Hai-Bin; Yang, Jin-Lei; Zhao, Shu-Min; Feng, Tai-Fu	PHYSICAL REVIEW D	2021	103	11	115015	http://dx.doi.org/10.1103/PhysRevD.103.115015
105	Higgs chameleon	Cai, Rong-Gen; Wang, Shao-Jiang	PHYSICAL REVIEW D	2021	103	2	23502	http://dx.doi.org/10.1103/PhysRevD.103.023502
106	Higgs-Mediated Optical Amplification in a Nonequilibrium Superconductor	Buzzi, Michele; Jotzu, Gregor; Cavalleri, Andrea; Cirac, J. Ignacio; Demler, Eugene A.; Halperin, Bertrand, I; Lukin, Mikhail D.; Shi, Tao; Wang, Yao; Podolsky, Daniel	PHYSICAL REVIEW X	2021	11	1	11055	http://dx.doi.org/10.1103/PhysRevX.11.011055
107	High energy window for probing dark matter with cosmic-ray antideuterium and antihelium	Ding, Yu-Chen; Li, Nan; Wei, Chun-Cheng; Zhou, Yu-Feng	CHINESE PHYSICS C	2021	45	6	65102	http://dx.doi.org/10.1088/1674-1137/abf13a
108	Holographic axion model: A simple gravitational tool for quantum matter	Baggioli, Matteo; Kim, Keun-Young; Li, Li; Li, Wei-Jia	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	7	270001	http://dx.doi.org/10.1007/s11433-021-1681-8
109	Holographic p-wave superconductors with momentum relaxation	Lu, Jun-Wang; Wu, Ya-Bo; Li, Huai-Fan; Dong, Bao-Ping; Zheng, Yong; Liao, Hao	PHYSICS LETTERS B	2021	819		136448	http://dx.doi.org/10.1016/j.physletb.2021.136448
110	Hubble constant and sound horizon from the late-time Universe	Zhang, Xue; Huang, Qing-Guo	PHYSICAL REVIEW D	2021	103	4	43513	http://dx.doi.org/10.1103/PhysRevD.103.043513
111	Hunting for top partner with a new signature at the LHC	Wang, Daohan; Wu, Lei; Zhang, Mengchao	PHYSICAL REVIEW D	2021	103	11	115017	http://dx.doi.org/10.1103/PhysRevD.103.115017
112	Hunting the doubly charmed baryon with strangeness	Cai, RongGen	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	10	101061	http://dx.doi.org/10.1007/s11433-021-1759-3
113	Identification of magnetic interactions and high-field quantum spin liquid in alpha-RuCl3	Li, Han; Zhang, Hao-Kai; Wang, Jiucui; Wu, Han-Qing; Gao, Yuan; Qu, Dai-Wei; Liu, Zheng-Xin; Gong, Shou-Shu; Li, Wei	NATURE COMMUNICATIONS	2021	12	1	4007	http://dx.doi.org/10.1038/s41467-021-24257-8
114	Implication of the Hubble tension for the primordial Universe in light of recent cosmological data	Ye, Gen; Hu, Bin; Piao, Yun-Song	PHYSICAL REVIEW D	2021	104	6	63510	http://dx.doi.org/10.1103/PhysRevD.104.063510
115	Implications of a possible TeV break in the cosmic-ray electron and positron flux	Ding, Yu-Chen; Li, Nan; Wei, Chun-Cheng; Wu, Yue-Liang; Zhou, Yu-Feng	PHYSICAL REVIEW D	2021	103	11	115010	http://dx.doi.org/10.1103/PhysRevD.103.115010
116	Implications of the Muon g-2 result on the flavour structure of the lepton mass matrix	Calibbi, Lorenzo; Lopez-Ibanez, M. L.; Melis, Aurora; Vives, Oscar	EUROPEAN PHYSICAL JOURNAL C	2021	81	10	929	http://dx.doi.org/10.1140/epjc/s10052-021-09741-1
117	Improved constraints on dark matter effective interactions from CDEX	Zhou, Yu-Feng	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	8	281031	http://dx.doi.org/10.1007/s11433-021-1679-4
118	Inclusive production of heavy quarkonium eta(Q) via Z boson decays within the framework of nonrelativistic QCD	Zheng, Xu-Chang; Chang, Chao-Hsi; Wu, Xing-Gang; Huang, Xu-Dong; Wang, Guang-Yu	PHYSICAL REVIEW D	2021	104	5	54044	http://dx.doi.org/10.1103/PhysRevD.104.054044
119	Instability of holographic superfluids in optical lattice	Yang, Peng; Li, Xin; Tian, Yu	JOURNAL OF HIGH ENERGY PHYSICS	2021		11	190	http://dx.doi.org/10.1007/JHEP11(2021)190
120	Intermittent null energy condition violations during inflation and primordial gravitational waves	Cai, Yong; Piao, Yun-Song	PHYSICAL REVIEW D	2021	103	8	83521	http://dx.doi.org/10.1103/PhysRevD.103.083521
121	Is the existence of a J/psi J/psi bound state plausible?	Dong, Xiang-Kun; Baru, Vadim; Guo, Feng-Kun; Hanhart, Christoph; Nefediev, Alexey; Zou, Bing-Song	SCIENCE BULLETIN	2021	66	24	2462-2470	http://dx.doi.org/10.1016/j.scib.2021.09.009
122	Is the NANOGrav signal a hint of ds decay during inflation?	Li, Hao-Hao; Ye, Gen; Piao, Yun-Song	PHYSICS LETTERS B	2021	816		136211	http://dx.doi.org/10.1016/j.physletb.2021.136211
123	Island in charged black holes	Ling, Yi; Liu, Yuxuan; Xian, Zhuo-Yu	JOURNAL OF HIGH ENERGY PHYSICS	2021		3	251	http://dx.doi.org/10.1007/JHEP03(2021)251

124	Joint mass-and-energy test of the equivalence principle at the 10(-10) level using atoms with specified mass and internal energy	Zhou, Lin; He, Chuan; Yan, Si-Tong; Chen, Xi; Gao, Dong-Feng; Duan, Wei-Tao; Ji, Yu-Hang; Xu, Run-Dong; Tang, Biao; Zhou, Chao; Barthwal, Sachin; Wang, Qi; Hou, Zhuo; Xiong, Zong-Yuan; Zhang, Yuan-Zhong; Liu, Min; Ni, Wei-Tou; Wang, Jin; Zhan, Ming-Sheng	PHYSICAL REVIEW A	2021	104	2	22822	http://dx.doi.org/10.1103/PhysRevA.104.022822
125	Kinematic numerators from the worldsheet: cubic trees from labelled trees	He, Song; Hou, Linghui; Tian, Jintian; Zhang, Yong	JOURNAL OF HIGH ENERGY PHYSICS	2021		8	118	http://dx.doi.org/10.1007/JHEP08(2021)118
126	Kinetic assays of DNA polymerase fidelity: A theoretical perspective beyond Michaelis-Menten kinetics	Li, Qiu-Shi; Shu, Yao-Gen; Ou-Yang, Zhong-Can; Li, Ming	PHYSICAL REVIEW E	2021	104	1	14408	http://dx.doi.org/10.1103/PhysRevE.104.014408
127	Large Anisotropies of the Stochastic Gravitational Wave Background from Cosmic Domain Walls	Liu, Jing; Cai, Rong-Gen; Guo, Zong-Kuan	PHYSICAL REVIEW LETTERS	2021	126	14	141303	http://dx.doi.org/10.1103/PhysRevLett.126.141303
128	Lattice calculation of pion form factors with overlap fermions	Wang, Gen; Liang, Jian; Draper, Terrence; Liu, Keh-Fei; Yang, Yi-Bo	PHYSICAL REVIEW D	2021	104	7	74502	http://dx.doi.org/10.1103/PhysRevD.104.074502
129	Learning the Effective Spin Hamiltonian of a Quantum Magnet	Yu, Sizhuo; Gao, Yuan; Chen, Bin-Bin; Li, Wei	CHINESE PHYSICS LETTERS	2021	38	9	97502	http://dx.doi.org/10.1088/0256-307X/38/9/097502
130	Lepton-specific inert two-Higgs-doublet model confronted with the new results for muon and electron g-2 anomalies and multilepton searches at the LHC	Han, Xiao-Fang; Li, Tianjun; Wang, Hong-Xin; Wang, Lei; Zhang, Yang	PHYSICAL REVIEW D	2021	104	11	115001	http://dx.doi.org/10.1103/PhysRevD.104.115001
131	LIGO as a probe of dark sectors	Huang, Fei; Sanz, Veronica; Shu, Jing; Xue, Xiao	PHYSICAL REVIEW D	2021	104	10	95001	http://dx.doi.org/10.1103/PhysRevD.104.095001
132	Linking continuum and lattice quark mass functions via an effective charge	Chang, Lei; Liu, Yu-Bin; Raya, Khepani; Rodriguez-Quintero, J.; Yang, Yi-Bo	PHYSICAL REVIEW D	2021	104	9	94509	http://dx.doi.org/10.1103/PhysRevD.104.094509
133	Long-loop feedback vertex set and dismantling on bipartite factor graphs	Li, Tianyi; Zhang, Pan; Zhou, Hai-Jun	PHYSICAL REVIEW E	2021	103	6	L061302	http://dx.doi.org/10.1103/PhysRevE.103.L061302
134	Low energy effective field theory operator basis at $d \leq 9$	Li, Hao-Lin; Ren, Zhe; Xiao, Ming-Lei; Yu, Jiang-Hao; Zheng, Yu-Hui	JOURNAL OF HIGH ENERGY PHYSICS	2021		6	138	http://dx.doi.org/10.1007/JHEP06(2021)138
135	Magnetic Field and Gravitational Waves from the First-Order Phase Transition	Di, Yuefeng; Wang, Jialong; Zhou, Ruiyu; Bian, Ligong; Cai, Rong-Gen; Liu, Jing	PHYSICAL REVIEW LETTERS	2021	126	25	251102	http://dx.doi.org/10.1103/PhysRevLett.126.251102
136	Magnetic Microswimmers Exhibit Bose-Einstein-Like Condensation	Meng, Fanlong; Matsunaga, Daiki; Mahault, Benoit; Golestanian, Ramin	PHYSICAL REVIEW LETTERS	2021	126	7	78001	http://dx.doi.org/10.1103/PhysRevLett.126.078001
137	Mass relations of mirror nuclei in terms of Coulomb energies based on relativistic continuum Hartree-Bogoliubov calculations	Ma, C.; Zong, Y. Y.; Zhang, S. Q.; Li, J.; Wang, K.; Zhao, Y. M.; Arima, A.	PHYSICAL REVIEW C	2021	103	5	54326	http://dx.doi.org/10.1103/PhysRevC.103.054326
138	Mass spectra and wave functions of $T_{QQ}(\bar{Q})\overline{\text{bar}}(Q)\overline{\text{bar}}$ tetraquarks	Li, Qiang; Chang, Chao-Hsi; Wang, Guo-Li; Wang, Tianhong	PHYSICAL REVIEW D	2021	104	1	14018	http://dx.doi.org/10.1103/PhysRevD.104.014018
139	Matching of fracture functions for SIDIS in target fragmentation region	Chen, K. B.; Ma, J. P.; Tong, X. B.	JOURNAL OF HIGH ENERGY PHYSICS	2021		11	38	http://dx.doi.org/10.1007/JHEP11(2021)038
140	Measuring the Gravitomagnetic Distortion from Rotating Halos. I. Methods	Tang, Chengfeng; Zhang, Pierre; Luo, Wentao; Li, Nan; Cai, Yi-Fu; Pi, Shi	ASTROPHYSICAL JOURNAL	2021	911	1	44	http://dx.doi.org/10.3847/1538-4357/abe69e
141	Measuring the scalar induced gravitational waves from observations	Li, Jun; Guo, Guang-Hai	EUROPEAN PHYSICAL JOURNAL C	2021	81	7	602	http://dx.doi.org/10.1140/epjc/s10052-021-09405-0
142	Measuring the tilt of primordial gravitational-wave power spectrum from observations (vol 62, 110421, 2019)	Li, Jun; Chen, Zu-Cheng; Huang, Qing-Guo	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	5	250451	http://dx.doi.org/10.1007/s11433-021-1663-3
143	Modelling Mullins effect induced by chain delamination and reattachment	Qian, Daoyuan; Meng, Fanlong	POLYMER	2021	222		123608	http://dx.doi.org/10.1016/j.polymer.2021.123608
144	Molecular nature of P-cs (4459) and its heavy quark spin partners	Xiao, C. W.; Wu, J. J.; Zou, B. S.	PHYSICAL REVIEW D	2021	103	5	54016	http://dx.doi.org/10.1103/PhysRevD.103.054016
145	Motional n-phonon bundle states of a trapped atom with clock transitions	Deng, Yuangang; Shi, Tao; Yi, Su	PHOTONICS RESEARCH	2021	9	7	1289-1299	http://dx.doi.org/10.1364/PRJ.427062
146	MSSM at future Higgs factories *	Li, Honglei; Song, Huayang; Su, Shufang; Su, Wei; Yang, Jin Min	CHINESE PHYSICS C	2021	45	4	45106	http://dx.doi.org/10.1088/1674-1137/abe19b

147	Multi-scalar signature of self-interacting dark matter in the NMSSM and beyond	Li, Jinmian; Pei, Junle; Zhang, Cong	JOURNAL OF HIGH ENERGY PHYSICS	2021		9	151	http://dx.doi.org/10.1007/JHEP09(2021)151
148	Multiscale computational prediction of beta-sheet peptide self-assembly morphology	Deng, Li; Wang, Yanting	MOLECULAR SIMULATION	2021	47	5	428-438	http://dx.doi.org/10.1080/08927022.2020.1738426
149	Muon ($g-2$) in the B-LSSM	Yang, Jin-Lei; Zhang, Hai-Bin; Liu, Chang-Xin; Dong, Xing-Xing; Feng, Tai-Fu	JOURNAL OF HIGH ENERGY PHYSICS	2021		8	86	http://dx.doi.org/10.1007/JHEP08(2021)086
150	Muon anomalous magnetic moment and Higgs potential stability in the 331 model from SU(6)	Li, Tianjun; Pei, Junle; Zhang, Wenxing	EUROPEAN PHYSICAL JOURNAL C	2021	81	7	671	http://dx.doi.org/10.1140/epjc/s10052-021-09474-1
151	Muon spinning its way to new physics	Khaw, Kim Siang; Li, Liang; Shu, Jing	FRONTIERS OF PHYSICS	2021	16	6	64602	http://dx.doi.org/10.1007/s11467-021-1089-2
152	$N=1$ supersymmetric SU(12)(C) x SU(2)(L) x SU(2)(R) models, SU(4)(C) x SU(6)(L) x SU(2)(R) models, and SU(4)(C) x SU(2)(L) x SU(6)(R) models from intersecting D6-branes	Li, Tianjun; Mansha, Adeel; Sun, Rui; Wu, Lina; He, Weikun	PHYSICAL REVIEW D	2021	104	4	46018	http://dx.doi.org/10.1103/PhysRevD.104.046018
153	Natural inflation with a nonminimal coupling to gravity	Reyimujia, Yakefu; Zhang, Xinyi	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021		3	59	http://dx.doi.org/10.1088/1475-7516/2021/03/059
154	Nature of Unconventional Pairing in the Kagome Superconductors AV(3)Sb(5) (A = K, Rb, Cs)	Wu, Xianxin; Schwemmer, Tilman; Mueller, Tobias; Consiglio, Armando; Sangiovanni, Giorgio; Di Sante, Domenico; Iqbal, Yasir; Hanke, Werner; Schnyder, Andreas P.; Denner, M. Michael; Fischer, Mark H.; Neupert, Titus; Thomale, Ronny	PHYSICAL REVIEW LETTERS	2021	127	17	177001	http://dx.doi.org/10.1103/PhysRevLett.127.177001
155	Near Threshold Structures and Hadronic Molecules	Dong, Xiang-Kun; Guo, Feng-Kun; Zou, Bing-Song	FEW-BODY SYSTEMS	2021	62	3	61	http://dx.doi.org/10.1007/s00601-021-01649-6
156	Network dismantling on factor graphs: break long loops and spare local structures	Li, Tianyi	NEW JOURNAL OF PHYSICS	2021	23	10	103014	http://dx.doi.org/10.1088/1367-2630/ac28ca
157	Neutrino non-standard interactions meet precision measurements of N-eff	Du, Yong; Yu, Jiang-Hao	JOURNAL OF HIGH ENERGY PHYSICS	2021		5	58	http://dx.doi.org/10.1007/JHEP05(2021)058
158	New alpha-Emitting Isotope U-214 and Abnormal Enhancement of alpha-Particle Clustering in Lightest Uranium Isotopes	Zhang, Z. Y.; Yang, H. B.; Huang, M. H.; Gan, Z. G.; Yuan, C. X.; Qi, C.; Andreyev, A. N.; Liu, M. L.; Ma, L.; Zhang, M. M.; Tian, Y. L.; Wang, Y. S.; Wang, J. G.; Yang, C. L.; Li, G. S.; Qiang, Y. H.; Yang, W. Q.; Chen, R. F.; Zhang, H. B.; Lu, Z. W.; Xu, X. X.; Duan, L. M.; Yang, H. R.; Huang, W. X.; Liu, Z.; Zhou, X. H.; Zhang, Y. H.; Xu, H. S.; Wang, N.; Zhou, H. B.; Wen, X. J.; Huang, S.; Hua, W.; Zhu, L.; Wang, X.; Mao, Y. C.; He, X. T.; Wang, S. Y.; Xu, W. Z.; Li, H. W.; Ren, Z. Z.; Zhou, S. G.	PHYSICAL REVIEW LETTERS	2021	126	15	152502	http://dx.doi.org/10.1103/PhysRevLett.126.152502
159	New effective interactions for hypernuclei in a density-dependent relativistic mean field model	Rong, Yu-Ting; Tu, Zhong-Hao; Zhou, Shan-Gui	PHYSICAL REVIEW C	2021	104	5	54321	http://dx.doi.org/10.1103/PhysRevC.104.054321
160	New holographic Weyl superconductors in Lifshitz gravity	Lu, Jun-Wang; Wu, Ya-Bo; Li, Huai-Fan; Liao, Hao; Zheng, Yong; Dong, Bao-Ping	COMMUNICATIONS IN THEORETICAL PHYSICS	2021	73	5	55401	http://dx.doi.org/10.1088/1572-9494/abe84a
161	New topological Gauss-Bonnet black holes in five dimensions	Peng, Yuxuan	PHYSICAL REVIEW D	2021	104	8	84004	http://dx.doi.org/10.1103/PhysRevD.104.084004
162	No Cauchy horizon theorem for nonlinear electrodynamics black holes with charged scalar hairs	An, Yu-Sen; Li, Li; Yang, Fu-Guo	PHYSICAL REVIEW D	2021	104	2	24040	http://dx.doi.org/10.1103/PhysRevD.104.024040
163	No inner-horizon theorem for black holes with charged scalar hairs	Cai, Rong-Gen; Li, Li; Yang, Run-Qiu	JOURNAL OF HIGH ENERGY PHYSICS	2021		3	263	http://dx.doi.org/10.1007/JHEP03(2021)263

164	Non-planar form factors of generic local operators via on-shell unitarity and color-kinematics duality	Lin, Guanda; Yang, Gang	JOURNAL OF HIGH ENERGY PHYSICS	2021		4	176	http://dx.doi.org/10.1007/JHEP04(2021)176
165	Non-standard interactions in SMEFT confronted with terrestrial neutrino experiments	Du, Yong; Li, Hao-Lin; Tang, Jian; Vihonen, Sampsa; Yu, Jiang-Hao	JOURNAL OF HIGH ENERGY PHYSICS	2021		3	19	http://dx.doi.org/10.1007/JHEP03(2021)019
166	Non-tensorial gravitational wave background in NANOGrav 12.5-year data set	Chen, Zu-Cheng; Yuan, Chen; Huang, Qing-Guo	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	12	120412	http://dx.doi.org/10.1007/s11433-021-1797-y
167	Notes on cluster algebras and some all-loop Feynman integrals	He, Song; Li, Zhenjie; Yang, Qinglin	JOURNAL OF HIGH ENERGY PHYSICS	2021		6	119	http://dx.doi.org/10.1007/JHEP06(2021)119
168	Nucleon isovector scalar charge from overlap fermions	Liu, Liuming; Chen, Ting; Draper, Terrence; Liang, Jian; Liu, Keh-Fei; Wang, Geng; Yang, Yi-Bo	PHYSICAL REVIEW D	2021	104	9	94503	http://dx.doi.org/10.1103/PhysRevD.104.094503
169	On the Evidence for a Common-spectrum Process in the Search for the Nanohertz Gravitational-wave Background with the Parkes Pulsar Timing Array	Goncharov, Boris; Shannon, R. M.; Reardon, D. J.; Hobbs, G.; Zic, A.; Bailes, M.; Curylo, M.; Dai, S.; Kerr, M.; Lower, M. E.; Manchester, R. N.; Mandow, R.; Middleton, H.; Miles, M. T.; Parthasarathy, A.; Thrane, E.; Thyagarajan, N.; Xue, X.; Zhu, X.-J.; Cameron, A. D.; Feng, Y.; Luo, R.; Russell, C. J.; Sarkissian, J.; Spiewak, R.; Wang, S.; Wang, J. B.; Zhang, L.; Zhang, S.	ASTROPHYSICAL JOURNAL LETTERS	2021	917	2	L19	http://dx.doi.org/10.3847/2041-8213/ac17f4
170	On the nature of near-threshold bound and virtual states	Matuschek, Inka; Baru, Vadim; Guo, Feng-Kun; Hanhart, Christoph	EUROPEAN PHYSICAL JOURNAL A	2021	57	3	101	http://dx.doi.org/10.1140/epja/s10050-021-00413-y
171	On thermodynamics of AdS black holes with scalar hair	Li, Li	PHYSICS LETTERS B	2021	815		136123	http://dx.doi.org/10.1016/j.physletb.2021.136123
172	Operator bases in effective field theories with sterile neutrinos: $d \leq 9$	Li, Hao-Lin; Ren, Zhe; Xiao, Ming-Lei; Yu, Jiang-Hao; Zheng, Yu-Hui	JOURNAL OF HIGH ENERGY PHYSICS	2021		11	3	http://dx.doi.org/10.1007/JHEP11(2021)003
173	Origin of the Surprising Mechanical Stability of Kinesin's Neck Coiled Coil	Liu, Shu-Xia; Lu, Gang; Zhang, Hui; Geng, Yi-Zhao; Jix, Qing	JOURNAL OF CHEMICAL THEORY AND COMPUTATION	2021	17	2	1017-1029	http://dx.doi.org/10.1021/acs.jctc.0c00566
174	Oscillatory behaviors near a black hole triple point	Cai, Rong-Gen	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	9	290432	http://dx.doi.org/10.1007/s11433-021-1738-5
175	Oscillons during Dirac-Born-Infeld preheating	Sang, Yu; Huang, Qing-Guo	PHYSICS LETTERS B	2021	823		136781	http://dx.doi.org/10.1016/j.physletb.2021.136781
176	Parameterized second post-Newtonian framework with conservation laws	Wu, Yu-Mei; Huang, Qing-Guo	PHYSICAL REVIEW D	2021	104	6	64050	http://dx.doi.org/10.1103/PhysRevD.104.064050
177	Partial Wave Amplitude Basis and Selection Rules in Effective Field Theories	Jiang, Minyuan; Shu, Jing; Xiao, Ming-Lei; Zheng, Yu-Hui	PHYSICAL REVIEW LETTERS	2021	126	1	11601	http://dx.doi.org/10.1103/PhysRevLett.126.011601
178	Parton interpretation and twist-4 parton distributions	Ma, J. P.; Pa, Z. Y.; Zhang, G. P.	PHYSICS LETTERS B	2021	820		136472	http://dx.doi.org/10.1016/j.physletb.2021.136472
179	Perturbative QCD analysis of near threshold heavy quarkonium photoproduction at large momentum transfer	Sun, Peng; Tong, Xuan-Bo; Yuan, Feng	PHYSICS LETTERS B	2021	822		136655	http://dx.doi.org/10.1016/j.physletb.2021.136655
180	Phonon-Mediated Long-Range Attractive Interaction in One-Dimensional Cuprates	Wang, Yao; Chen, Zhuoyu; Shi, Tao; Moritz, Brian; Shen, Zhi-Xu; Devereaux, Thomas P.	PHYSICAL REVIEW LETTERS	2021	127	19	197003	http://dx.doi.org/10.1103/PhysRevLett.127.197003
181	Photon-jet events as a probe of axionlike particles at the LHC	Wang, Daohan; Wu, Lei; Yang, Jin Min; Zhang, Mengchao	PHYSICAL REVIEW D	2021	104	9	95016	http://dx.doi.org/10.1103/PhysRevD.104.095016
182	Precision Higgs couplings in neutral naturalness models: an effective field theory approach	Heurtier, Lucien; Li, Hao-Lin; Song, Huayang; Su, Shufang; Su, Wei; Yu, Jiang-Hao	JOURNAL OF HIGH ENERGY PHYSICS	2021		2	234	http://dx.doi.org/10.1007/JHEP02(2021)234
183	Prediction of possible DK1 bound states	Dong, Xiang-Kun; Zou, Bing-Song	EUROPEAN PHYSICAL JOURNAL A	2021	57	4	139	http://dx.doi.org/10.1140/epja/s10050-021-00442-7
184	Primordial black holes and secondary gravitational waves from string inspired general no-scale supergravity	Wu, Lina; Gong, Yungui; Li, Tianjun	PHYSICAL REVIEW D	2021	104	12	123544	http://dx.doi.org/10.1103/PhysRevD.104.123544
185	Primordial black holes and stochastic gravitational wave background from inflation with a noncanonical spectator field	Cai, Rong-Gen; Chen, Chao; Fu, Chengjie	PHYSICAL REVIEW D	2021	104	8	83537	http://dx.doi.org/10.1103/PhysRevD.104.083537

186	Probing a bino NLSP at lepton colliders	Chen, Junmou; Han, Chengcheng; Yang, Jin Min; Zhang, Mengchao	PHYSICAL REVIEW D	2021	104	1	15009	http://dx.doi.org/10.1103/PhysRevD.104.015009
187	Probing extended scalar sectors with precision $e^{+}e^{-} \rightarrow Z\gamma$ and Higgs diphoton studies	Ramsey-Musolf, Michael J.; Yu, Jiang-Hao; Zhou, Jia	JOURNAL OF HIGH ENERGY PHYSICS	2021		10	155	http://dx.doi.org/10.1007/JHEP10(2021)155
188	Probing the supersymmetric grand unified theories at the future proton-proton colliders and Hyper-Kamiokande experiment	Ahmed, Waqas; Li, Tianjun; Raza, Shabbar; Xu, Fang-Zhou	PHYSICS LETTERS B	2021	819		136378	http://dx.doi.org/10.1016/j.physletb.2021.136378
189	Probing the triple Higgs boson coupling with machine learning at the LHC	Abdughani, Murat; Wang, Daohan; Wu, Lei; Yang, Jin Min; Zhao, Jun	PHYSICAL REVIEW D	2021	104	5	56003	http://dx.doi.org/10.1103/PhysRevD.104.056003
190	Probing the universality of acceleration scale in modified Newtonian dynamics with SPARC galaxies	Li, Xin; Zhao, Su-Ping; Lin, Hainan; Zhou, Yong	CHINESE PHYSICS C	2021	45	2	25107	http://dx.doi.org/10.1088/1674-1137/abce53
191	Probing ultralight dark matter with future ground-based gravitational-wave detectors	Yuan, Chen; Brito, Richard; Cardoso, Vitor	PHYSICAL REVIEW D	2021	104	4	44011	http://dx.doi.org/10.1103/PhysRevD.104.044011
192	QCD phase diagram with a background magnetic field in an improved soft-wall AdS/QCD model	Fang, Zhen; Li, Ying-Ying; Wu, Yue-Liang	EUROPEAN PHYSICAL JOURNAL C	2021	81	6	545	http://dx.doi.org/10.1140/epjc/s10052-021-09311-5
193	Quantum criticality tuned by magnetic field in optimally electron-doped cuprate thin films	Zhang, Xu; Yu, Heshan; Chen, Qihong; Yang, Runqiu; He, Ge; Lin, Ziquan; Li, Qian; Yuan, Jie; Zhu, Beiji; Li, Liang; Yang, Yifeng; Xiang, Tao; Cai, Rong-Gen; Kusmartseva, Anna; Kusmartsev, F., V.; Wang, Jun-Feng; Jin, Kui	PHYSICAL REVIEW B	2021	103	1	14517	http://dx.doi.org/10.1103/PhysRevB.103.014517
194	Quantum diffusion of massive Dirac fermions induced by symmetry breaking	Zhang, Ting; Tian, Chushun; Sheng, Ping	PHYSICAL REVIEW B	2021	104	7	75427	http://dx.doi.org/10.1103/PhysRevB.104.075427
195	Quasifree Neutron Knockout Reaction Reveals a Small s-Orbital Component in the Borromean Nucleus B-17	Yang, Z. H.; Kubota, Y.; Corsi, A.; Yoshida, K.; Sun, X-X; Li, J. G.; Kimura, M.; Michel, N.; Ogata, K.; Yuan, C. X.; Yuan, Q.; Authelet, G.; Baba, H.; Caesar, C.; Calvet, D.; Delbart, A.; Dozono, M.; Feng, J.; Flavigny, F.; Gheller, J-M; Gibelin, J.; Giganon, A.; Gillibert, A.; Hasegawa, K.; Isobe, T.; Kanaya, Y.; Kawakami, S.; Kim, D.; Kiyokawa, Y.; Kobayashi, M.; Kobayashi, N.; Kobayashi, T.; Kondo, Y.; Korkulu, Z.; Koyama, S.; Lapoux, V.; Maeda, Y.; Marques, F. M.; Motobayashi, T.; Miyazaki, T.; Nakamura, T.; Nakatsuka, N.; Nishio, Y.; Obertelli, A.; Ohkura, A.; Orr, N. A.; Ota, S.; Otsu, H.; Ozaki, T.; Panin, V.; Paschalis, S.; Pollacco, E. C.; Reichert, S.; Rousse, J-Y; Saito, A. T.; Sakaguchi, S.; Sako, M.; Santamaria, C.; Sasano, M.; Sato, H.; Shikata, M.; Shimizu, Y.; Shindo, Y.; Stuhl, L.; Sumikama, T.; Sun, Y. L.; Tabata, M.; Togano, Y.; Tsubota, J.; Xu, F. R.; Yasuda, J.; Yoneda, K.; Zenihiro, J.; Zhou, S-G; Zuo, W.; Uesaka, T.	PHYSICAL REVIEW LETTERS	2021	126	8	82501	http://dx.doi.org/10.1103/PhysRevLett.126.082501
196	Realization of topological Mott insulator in a twisted bilayer graphene lattice model	Chen, Bin-Bin; Liao, Yuan Da; Chen, Ziyu; Vafeek, Oskar; Kang, Jian; Li, Wei; Meng, Zi Yang	NATURE COMMUNICATIONS	2021	12	1	5480	http://dx.doi.org/10.1038/s41467-021-25438-1
197	Reconstructing boosted Higgs jets from event image segmentation	Li, Jinmian; Li, Tianjun; Xu, Fang-Zhou	JOURNAL OF HIGH ENERGY PHYSICS	2021		4	156	http://dx.doi.org/10.1007/JHEP04(2021)156
198	Renormalization Group evolution from on-shell SMEFT	Jiang, Minyuan; Ma, Teng; Shu, Jing	JOURNAL OF HIGH ENERGY PHYSICS	2021		1	101	http://dx.doi.org/10.1007/JHEP01(2021)101
199	Reservoir-engineered entanglement in an unresolved-sideband optomechanical system	Wang, Yang-Yang; Zhang, Rong; Chesi, Stefano; Wang, Ying-Dan	COMMUNICATIONS IN THEORETICAL PHYSICS	2021	73	5	55105	http://dx.doi.org/10.1088/1572-9494/abe2f8
200	Residues, modularity, and the Cardy limit of the 4d $N=4$ superconformal index	Goldstein, Kevin; Jejjala, Vishnu; Lei, Yang; van Leuven, Sam; Li, Wei	JOURNAL OF HIGH ENERGY PHYSICS	2021		4	216	http://dx.doi.org/10.1007/JHEP04(2021)216

201	Resolving the $(g-2)(\mu)$ discrepancy with F-SU(5) intersecting D-branes	Lamborn, Joseph L.; Li, Tianjun; Maxin, James A.; Nanopoulos, Dimitri, V	JOURNAL OF HIGH ENERGY PHYSICS	2021		11	81	http://dx.doi.org/10.1007/JHEP11(2021)081
202	Resonances $X(4140)$, $X(4160)$, and $P_{cs}(4459)$ in the decay of $\Lambda_{cb}(b) \rightarrow J/\psi \Lambda_{cb}$	Liu, Wen-Ying; Hao, Wei; Wang, Guan-Ying; Wang, Yan-Yan; Wang, En; Li, De-Min	PHYSICAL REVIEW D	2021	103	3	34019	http://dx.doi.org/10.1103/PhysRevD.103.034019
203	Resurrecting low-mass axion dark matter via a dynamical QCD scale	Heurtier, Lucien; Huang, Fei; Tait, Tim M. P.	JOURNAL OF HIGH ENERGY PHYSICS	2021		12	216	http://dx.doi.org/10.1007/JHEP12(2021)216
204	Revisiting the nature of the P-c pentaquarks	Du, Meng-Lin; Baru, Vadim; Guo, Feng-Kun; Hanhart, Christoph; Meissner, Ulf-G.; Oller, Jose A.; Wang, Qian	JOURNAL OF HIGH ENERGY PHYSICS	2021		8	157	http://dx.doi.org/10.1007/JHEP08(2021)157
205	Revisiting the production of $J/\psi + \eta(c)$ via the e^+e^- annihilation within the QCD light-cone sum rules	Zeng, Long; Fu, Hai-Bing; Hu, Dan-Dan; Chen, Ling-Li; Cheng, Wei; Wu, Xing-Gang	PHYSICAL REVIEW D	2021	103	5	56012	http://dx.doi.org/10.1103/PhysRevD.103.056012
206	Revisiting the supersymmetric Pati-Salam models from intersecting D6-branes	Li, Tianjun; Mansha, Adeel; Sun, Rui	EUROPEAN PHYSICAL JOURNAL C	2021	81	1	82	http://dx.doi.org/10.1140/epjc/s10052-021-08839-w
207	R/MOM renormalization of the parton quasidistribution functions in lattice regularization	Zhang, Kuan; Li, Yuan-Yuan; Huo, Yi-Kai; Schaefer, Andreas; Sun, Peng; Yang, Yi-Bo	PHYSICAL REVIEW D	2021	104	7	74501	http://dx.doi.org/10.1103/PhysRevD.104.074501
208	Rotating deformed halo nuclei and shape decoupling effects	Sun, Xiang-Xiang; Zhou, Shan-Gui	SCIENCE BULLETIN	2021	66	20	2072-2078	http://dx.doi.org/10.1016/j.scib.2021.07.005
209	Roton pair density wave in a strong-coupling kagome superconductor	Chen, Hui; Yang, Haitao; Hu, Bin; Zhao, Zhen; Yuan, Jie; Xing, Yuqing; Qian, Guojian; Huang, Zihao; Li, Geng; Ye, Yuhang; Ma, Sheng; Ni, Shunli; Zhang, Hua; Yin, Qiangwei; Gong, Chunsheng; Tu, Zhijun; Lei, Hechang; Tan, Hengxin; Zhou, Sen; Shen, Chengmin; Dong, Xiaoli; Yan, Binghai; Wang, Ziqiang; Gao, Hong-Jun	NATURE	2021	599	7884	222-228	http://dx.doi.org/10.1038/s41586-021-03983-5
210	Scaling Regimes of Active Turbulence with External Dissipation	Martinez-Prat, Berta; Alert, Ricard; Meng, Fanlong; Ignés-Mullol, Jordi; Joanny, Jean-François; Casademunt, Jaume; Golestanian, Ramin; Sagues, Francesc	PHYSICAL REVIEW X	2021	11	3	31065	http://dx.doi.org/10.1103/PhysRevX.11.031065
211	Searching for Solar Axions Using Data from the Sudbury Neutrino Observatory	Bhusal, Aagaman; Houston, Nick; Li, Tianjun	PHYSICAL REVIEW LETTERS	2021	126	9	91601	http://dx.doi.org/10.1103/PhysRevLett.126.091601
212	Self-consistent methods for structure and production of heavy and superheavy nuclei	Adamian, G. G.; Antonenko, N., V.; Lenske, H.; Malov, L. A.; Zhou, Shan-Gui	EUROPEAN PHYSICAL JOURNAL A	2021	57	3	89	http://dx.doi.org/10.1140/epja/s10050-021-00375-1
213	Self-renormalization of quasi-light-front correlators on the lattice Lattice Parton Collaboration (LPC)	Huo, Yi-Kai; Su, Yushan; Gui, Long-Cheng; Ji, Xiangdong; Li, Yuan-Yuan; Liu, Yizhuang; Schafer, Andreas; Schlemmer, Maximilian; Sun, Peng; Wang, Wei; Yang, Yi-Bo; Zhang, Jian-Hui; Zhang, Kuan	NUCLEAR PHYSICS B	2021	969		115443	http://dx.doi.org/10.1016/j.nuclphysb.2021.115443
214	Semi-inclusive lepto-production of hidden-charm exotic hadrons	Yang, Zhi; Guo, Feng-Kun	CHINESE PHYSICS C	2021	45	12	123101	http://dx.doi.org/10.1088/1674-1137/ac2359
215	Shifted quiver Yangians and representations from BPS crystals	Galakhov, Dmitry; Li, Wei; Yamazaki, Masahito	JOURNAL OF HIGH ENERGY PHYSICS	2021		8	146	http://dx.doi.org/10.1007/JHEP08(2021)146
216	SL(3, Z) Modularity and New Cardy limits of the $N=4$ superconformal index	Jejjala, Vishnu; Lei, Yang; van Leuven, Sam; Li, Wei	JOURNAL OF HIGH ENERGY PHYSICS	2021		11	47	http://dx.doi.org/10.1007/JHEP11(2021)047
217	Solving quantum statistical mechanics with variational autoregressive networks and quantum circuits	Liu, Jin-Guo; Mao, Liang; Zhang, Pan; Wang, Lei	MACHINE LEARNING-SCIENCE AND TECHNOLOGY	2021	2	2	25011	http://dx.doi.org/10.1088/2632-2153/aba19d
218	Solving statistical mechanics on sparse graphs with feedback-set variational autoregressive networks	Pan, Feng; Zhou, Pengfei; Zhou, Hai-Jun; Zhang, Pan	PHYSICAL REVIEW E	2021	103	1	12103	http://dx.doi.org/10.1103/PhysRevE.103.012103

219	Space-borne atom interferometric gravitational wave detections. Part I. The forecast of bright sirens on cosmology	Cai, Rong-Gen; Yang, Tao	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021		12	17	http://dx.doi.org/10.1088/1475-7516/2021/12/017
220	Spinning no-scale F-SU(5) in the right direction	Li, Tianjun; Maxin, James A.; Nanopoulos, Dimitri, V	EUROPEAN PHYSICAL JOURNAL C	2021	81	12	1059	http://dx.doi.org/10.1140/epjc/s10052-021-09835-w
221	Spontaneous Freezing of Water between 233 and 235 K Is Not Due to Homogeneous Nucleation	Xue, Han; Fu, Yang; Lu, Youhua; Hao, Dezhao; Li, Kaiyong; Bai, Guoying; Ou-Yang, Zhong-Can; Wang, Jianjun; Zhou, Xin	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	2021	143	34	13548-13556	http://dx.doi.org/10.1021/jacs.1c04055
222	Strange molecular partners of the Z(c)(3900) and Z(c)(4020)	Yang, Zhi; Cao, Xu; Guo, Feng-Kun; Nieves, Juan; Valderrama, Manuel Pavon	PHYSICAL REVIEW D	2021	103	7	74029	http://dx.doi.org/10.1103/PhysRevD.103.074029
223	Stringy canonical forms	Arkani-Hamed, Nima; He, Song; Lam, Thomas	JOURNAL OF HIGH ENERGY PHYSICS	2021		2	69	http://dx.doi.org/10.1007/JHEP02(2021)069
224	Sun heated MeV-scale dark matter and the XENON1T electron recoil excess	Chen, Yifan; Cui, Ming-Yang; Shu, Jing; Xue, Xiao; Yuan, Guan-Wen; Yuan, Qiang	JOURNAL OF HIGH ENERGY PHYSICS	2021		4	282	http://dx.doi.org/10.1007/JHEP04(2021)282
225	Superradiantlike dynamics of nuclear spins by nonadiabatic electron shuttling	Fang, Yinan; Wang, Ying-Dan; Fazio, Rosario; Chesi, Stefano	PHYSICAL REVIEW B	2021	103	15	155301	http://dx.doi.org/10.1103/PhysRevB.103.155301
226	Supervised learning with projected entangled pair states	Cheng, Song; Wang, Lei; Zhang, Pan	PHYSICAL REVIEW B	2021	103	12	125117	http://dx.doi.org/10.1103/PhysRevB.103.125117
227	T(T)over-bar/J(T)over-bar-deformed WZW models from Chern-Simons AdS(3) gravity with mixed boundary conditions	He, Miao; Gao, Yi-hong	PHYSICAL REVIEW D	2021	103	12	126019	http://dx.doi.org/10.1103/PhysRevD.103.126019
228	Taiji program in space for gravitational universe with the first run key technologies test in Taiji-1	Wu, Yue-Liang; Luo, Zi-Ren; Wang, Jian-Yu; Bai, Meng; Bian, Wei; Cai, Hai-Wen; Cai, Rong-Gen; Cai, Zhi-Ming; Cao, Jin; Chen, Bin; Chen, Di-Jun; Chen, Guang-Feng; Chen, Kun; Chen, Ling; Chen, Li-Sheng; Chen, Ming-Wei; Chen, Wei-Biao; Chen, Yan; Chen, Ze-Yi; Chi, Yi-Xing; Cong, Lin-Xiao; Deng, Jian-Feng; Deng, Xiao-Qin; Dong, Xiao-Long; Duan, Li; Fan, Da; Fan, Sen-Quan; Fan, Shou-Shan; Fang, Chao; Fang, Yuan; Feng, Ke; Feng, Jian-Chao; Feng, Pan; Feng, Zhun; Gao, Chen; Gao, Rui-Hong; Gao, Run-Lian; Guo, Bin; Guo, Tong; Guo, Xiao-Liang; Guo, Xu; Guo, Zong-Kuan; He, Jian-Wu; He, Ji-Bo; Hou, Xia; Hu, Liang; Hu, Wen-Rui; Hu, Zhi-Qiang; Huang, Min-Jie; Jia, Jian-Jun; Jiang, Kai-Li; Jin, Gang; Jin, Hong-Bo; Kang, Bao-Peng; Kang, Qi; Kong, Feng-Lian; Lei, Jun-Gang; Li, Bo-Quan; Li, Cun-Hui; Li, Dong-Jing; Li, Fan; Li, Hao-Si; Li, Hua-Dong; Li, Hua-Wang; Li, Jiang; Li, Liu-Feng; Li, Wei; Li, Xiao-Kang; Li, Ying-Min; Li, Yong-Gui; Li, Yun-Peng; Li, Yu-Peng; Li, Zhao; Li, Zhe; Liang, Hong; Lin, Huang; Lin, Zhi-Yong; Liu,	INTERNATIONAL JOURNAL OF MODERN PHYSICS A	2021	36	11N1 2	2102002	http://dx.doi.org/10.1142/S0217751X21020024
229	Tale of two-U(1) axion models	Hu, Dong; Jiang, Hao-Ran; Li, Hao-Lin; Xiao, Ming-Lei; Yu, Jiang-Hao	PHYSICAL REVIEW D	2021	103	9	95025	http://dx.doi.org/10.1103/PhysRevD.103.095025
230	Testing AdS early dark energy with Planck, SPTpol, and LSS data	Jiang, Jun-Qian; Piao, Yun-Song	PHYSICAL REVIEW D	2021	104	10	103524	http://dx.doi.org/10.1103/PhysRevD.104.103524
231	Testing the ALP-photon coupling with polarization measurements of Sagittarius A	Yuan, Guan-Wen; Xia, Zi-Qing; Tang, Chengfeng; Zhao, Yaqi; Cai, Yi-Fu; Chen, Yifan; Shu, Jing; Yuan, Qiang	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021		3	18	http://dx.doi.org/10.1088/1475-7516/2021/03/018
232	Testing weakest force with coldest spot	Cai, Rong-Gen; Wang, Shao-Jiang; Yi, Su; Yu, Jiang-Hao	EUROPEAN PHYSICAL JOURNAL C	2021	81	4	318	http://dx.doi.org/10.1140/epjc/s10052-021-09102-y
233	Tests for the existence of horizon through gravitational waves from a small binary in the vicinity of a massive object	Fang, Yun; Guo, Rong-Zhen; Huang, Qing-Guo	PHYSICS LETTERS B	2021	822		136654	http://dx.doi.org/10.1016/j.physletb.2021.136654
234	The axion-baryon coupling in SU(3) heavy baryon chiral perturbation theory	Vonk, Thomas; Guo, Feng-Kun; Meissner, Ulf-G	JOURNAL OF HIGH ENERGY PHYSICS	2021		8	24	http://dx.doi.org/10.1007/JHEP08(2021)024

235	The drag-free control design and in-orbit experimental results of Taiji-1	Hu, Zhiqiang; Wang, Pengcheng; Deng, Jianfeng; Cai, Zhiming; Wang, Zhi; Wang, Zuolei; Yu, Jinpei; Wu, YueLiang; Kang, Qi; Li, Huawang; Zhang, Yonghe	INTERNATIONAL JOURNAL OF MODERN PHYSICS A	2021	36	11N1 2	2140019	http://dx.doi.org/10.1142/S0217751X21400194	
236	The foundation of the hyperunified field theory I - Fundamental building block and symmetry	Wu, Yue-Liang	INTERNATIONAL JOURNAL OF MODERN PHYSICS A	2021	36	28	2143001	http://dx.doi.org/10.1142/S0217751X21430016	
237	The foundation of the hyperunified field theory II - Fundamental interaction and evolving universe	Wu, Yue-Liang	INTERNATIONAL JOURNAL OF MODERN PHYSICS A	2021	36	28	2143002	http://dx.doi.org/10.1142/S0217751X21430028	
238	The Gravitational-wave physics II: Progress	Bian, Ligong; Cai, Rong-Gen; Cao, Shuo; Cao, Zhoujian; Gao, He; Guo, Zong-Kuan; Lee, Kejia; Li, Di; Liu, Jing; Lu, Youjun; Pi, Shi; Wang, Jian-Min; Wang, Shao-Jiang; Wang, Yan; Yang, Tao; Yang, Xing-Yu; Yu, Shenghua; Zhang, Xin	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	12	120401	http://dx.doi.org/10.1007/s11433-021-1781-x	
239	The LISA-Taiji Network: Precision Localization of Coalescing Massive Black Hole Binaries	Ruan, Wen-Hong; Liu, Chang; Guo, Zong-Kuan; Wu, Yue-Liang; Cai, Rong-Gen	RESEARCH	2021	2021		6014164	http://dx.doi.org/10.34133/2021/6014164	
240	The pipeline of data processing for TAIJI-1 space mission in the TAIJI program for the detection of gravitational wave	Jin, Hong-Bo; Xu, Peng	INTERNATIONAL JOURNAL OF MODERN PHYSICS A	2021	36	11N1 2	2140025	http://dx.doi.org/10.1142/S0217751X2140025X	
241	The quirk signal at FASER and FASER 2	Li, Jinmian; Pei, Junle; Ran, Long Jie; Zhang, Wenxing	JOURNAL OF HIGH ENERGY PHYSICS	2021		12	109	http://dx.doi.org/10.1007/JHEP12(2021)109	
242	The symbol and alphabet of two-loop NMHV amplitudes from $Q<mm:lm:stretchy=true><overbar></mml:mover>$ equations	He, Song; Li, Zhenjie; Zhang, Chi	JOURNAL OF HIGH ENERGY PHYSICS	2021		3	278	http://dx.doi.org/10.1007/JHEP03(2021)278	
243	The Taiji program: A concise overview	Luo, Ziren; Wang, Yan; Wu, YueLiang; Hu, Wenrui; Jin, Gang	PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS	2021	2021	5	05A108	http://dx.doi.org/10.1093/ptep/ptaa083	
244	The three-loop MHV octagon from $(Q)over-bar$ equations	Li, Zhenjie; Zhang, Chi	JOURNAL OF HIGH ENERGY PHYSICS	2021		12	113	http://dx.doi.org/10.1007/JHEP12(2021)113	
245	The upper bound on the tensor-to-scalar ratio consistent with quantum gravity	Wu, Lina; Gao, Qing; Gong, Yungui; Jia, Yiding; Li, Tianjun	COMMUNICATIONS IN THEORETICAL PHYSICS	2021		73	7	75402	http://dx.doi.org/10.1088/1572-9494/abf824
246	The Wilson-loop d log representation for Feynman integrals	He, Song; Li, Zhenjie; Tang, Yichao; Yang, Qinglin	JOURNAL OF HIGH ENERGY PHYSICS	2021		5	52	http://dx.doi.org/10.1007/JHEP05(2021)052	
247	Three-dimensional stacking of canted antiferromagnetism and pseudospin current in undoped Sr2IrO4: Symmetry analysis and microscopic model realization	Huang, Yun-Peng; Dong, Jin-Wei; Wang, Ziqiang; Zhou, Sen	PHYSICAL REVIEW B	2021	104	16	165145	http://dx.doi.org/10.1103/PhysRevB.104.165145	
248	Three-Loop Color-Kinematics Duality: A 24-Dimensional Solution Space Induced by New Generalized Gauge Transformations	Lin, Guanda; Yang, Gang; Zhang, Siyuan	PHYSICAL REVIEW LETTERS	2021	127	17	171602	http://dx.doi.org/10.1103/PhysRevLett.127.171602	
249	Topology change and emergent scale symmetry in compact star matter via gravitational wave detection	Yang, WenCong; Ma, YongLiang; Wu, YueLiang	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY	2021	64	5	252011	http://dx.doi.org/10.1007/s11433-020-1662-5	
250	Topology-Enhanced Nonreciprocal Scattering and Photon Absorption in a Waveguide	Nie, Wei; Shi, Tao; Nori, Franco; Liu, Yu-xi	PHYSICAL REVIEW APPLIED	2021	15	4	44041	http://dx.doi.org/10.1103/PhysRevApplied.15.044041	
251	Trapping Majorana zero modes in vortices of magnetic texture crystals coupled to nodal superconductors	Steffensen, Daniel; Andersen, Brian M.; Kotetes, Panagiotis	PHYSICAL REVIEW B	2021	104	18	174502	http://dx.doi.org/10.1103/PhysRevB.104.174502	
252	Tropical Tensor Network for Ground States of Spin Glasses	Liu, Jin-Guo; Wang, Lei; Zhang, Pan	PHYSICAL REVIEW LETTERS	2021	126	9	90506	http://dx.doi.org/10.1103/PhysRevLett.126.090506	
253	Truncated cluster algebras and Feynman integrals with algebraic letters	He, Song; Li, Zhenjie; Yang, Qinglin	JOURNAL OF HIGH ENERGY PHYSICS	2021		12	110	http://dx.doi.org/10.1007/JHEP12(2021)110	
254	Two-loop anomalous dimensions of QCD operators up to dimension-sixteen and Higgs EFT amplitudes	Jin, Qingjun; Ren, Ke; Yang, Gang	JOURNAL OF HIGH ENERGY PHYSICS	2021		4	180	http://dx.doi.org/10.1007/JHEP04(2021)180	

255	Two-meson form factors in unitarized chiral perturbation theory	Shi, Yu-Ji; Seng, Chien-Yeah; Guo, Feng-Kun; Kubis, Bastian; Meissner, Ulf-G; Wang, Wei	JOURNAL OF HIGH ENERGY PHYSICS	2021		4	86	http://dx.doi.org/10.1007/JHEP04(2021)086
256	UV completed composite Higgs model with heavy composite partners	Dong, Zi-Yu; Guan, Cong-Sen; Ma, Teng; Shu, Jing; Xue, Xiao	PHYSICAL REVIEW D	2021	104	3	35013	http://dx.doi.org/10.1103/PhysRevD.104.035013
257	Warm-assisted natural inflation	Reyimuaji, Yakefu; Zhang, Xinyi	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2021		4	77	http://dx.doi.org/10.1088/1475-7516/2021/04/077
258	What's inside a hairy black hole in massive gravity?	Mansoori, Seyed Ali Hosseini; Li, Li; Rafiee, Morteza; Baggioli, Matteo	JOURNAL OF HIGH ENERGY PHYSICS	2021		10	98	http://dx.doi.org/10.1007/JHEP10(2021)098
259	Where Is the Lightest Charmed Scalar Meson?	Du, Meng-Lin; Guo, Feng-Kun; Hanhart, Christoph; Kubis, Bastian; Meissner, Ulf-G	PHYSICAL REVIEW LETTERS	2021	126	19	192001	http://dx.doi.org/10.1103/PhysRevLett.126.192001