

The Belle II Physics Book

Progress of Theoretical and Experimental Physics
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Citation Report

#	ARTICLE	IF	CITATIONS
1	Search for Axionlike Particles Produced in $e^+e^- \rightarrow e^+e^- \gamma \gamma$ Collisions at Belle II. Physical Review Letters, 2020, 125, 161806.	2.9	50
2	Angular and polarization observables for Majorana-mediated B decays with effective interactions. European Physical Journal C, 2020, 80, 1.	1.4	6
3	Study of the fast calorimeter prototype for modern e^+e^- factories. Journal of Instrumentation, 2020, 15, C08023-C08023.	0.5	1
4	Thermal Relic Targets with Exponentially Small Couplings. Physical Review Letters, 2020, 124, 151801.	2.9	16
5	Dark matter interpretation of excesses in multiple direct detection experiments. Physical Review D, 2020, 102, .	1.6	37
6	Progress on the Electromagnetic Calorimeter Trigger Simulation at the Belle II Experiment. IEEE Transactions on Nuclear Science, 2020, 67, 2143-2147.	1.2	1
7	Bottomonium spectrum in the relativistic flux tube model. Physical Review D, 2020, 101, .	1.6	19
8	Searching for dark photons at the LHeC and FCC-he. Physical Review D, 2020, 101, .	1.6	16
9	Resolving the $g \rightarrow g \gamma$ anomalies with leptoquarks and a dark Higgs boson.	1.6	24
10	Probing dark sectors with long-lived particles at Belle II. Physical Review D, 2020, 101, .	1.6	40
11	Coming decade of $h \rightarrow \tilde{l} \tilde{l}^*$ and $h \rightarrow \tilde{l} \tilde{l}^* \gamma$ anomalies with leptoquarks and a dark Higgs boson.	1.6	10
12	Exploiting $C \rightarrow P$ asymmetries in rare charm decays. Physical Review D, 2020, 101, .	1.6	19
13	Dalitz analysis of $D^0 \rightarrow K^+ K^- \pi^0$ decays at Belle. Physical Review D, 2020, 102, .	1.6	8
14	Experimental review of the $\Upsilon(1S, 2S, 3S)$ physics at e^+e^- colliders and the LHC. Frontiers of Physics, 2020, 15, 1.	2.4	3
15	$Z\epsilon^2$ models with less-minimal flavor violation. Physical Review D, 2020, 101, .	1.6	36
16	Semileptonic decays of $D_s \rightarrow T_j$ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 137 Td.	1.6	102
17	Millicharged particles at electron colliders. Physical Review D, 2020, 102, .	1.6	15
18	QCD sum rule studies on the $\{s\}$ tetraquark states of $J^PC = 0^{+-} S$. European Physical Journal C, 2020, 80, 1.	1.4	13

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73	SU(3) analysis of fully-light tetraquarks in heavy meson weak decays. European Physical Journal C, 2021, 81, 1.	1.4	4
74	Study of the $\Upsilon(1S) \rightarrow \tau^+ \tau^-$ DP decays. International Journal of Modern Physics A, 2021, 36, 2150061.	0.5	1
75	A fast simulation package for STCF detector. Journal of Instrumentation, 2021, 16, P03029.	0.5	20
76	Reinvestigating the $B \rightarrow P \rightarrow P$ decays by including the contributions from dispersive and absorptive. Physical Review D, 2021, 103, .	1.6	8
77	Dispersive and absorptive violation in $D \rightarrow C P$ violation in $D \rightarrow C P$. Physical Review D, 2021, 103, .	1.6	19
78	Light tetraquark states with the exotic quantum number $J^{PC}=3\hat{a}^+$. Physical Review D, 2021, 103, .	1.6	2
79	Performance of production modules of the Belle II pixel detector in a high-energy particle beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 991, 164978.	0.7	0
80	Explaining the Many Threshold Structures in the Heavy-Quark Hadron Spectrum. Physical Review Letters, 2021, 126, 152001.	2.9	69
81	Prospect and implications of $c \rightarrow b \rightarrow H$ production at the LHC. Physical Review D, 2021, 103, .	1.6	5
82	In pursuit of new physics with $B_d \rightarrow \bar{K}^0$ and $B_s \rightarrow \bar{K}^0$ decays at the high-precision Frontier. Journal of Physics C: Nuclear and Particle Physics, 2021, 48, 065002.	1.4	13
83	Extra gauge bosons and lepton flavor universality violation in $B \rightarrow K^* \mu^+ \mu^-$ meson decays. Physical Review D, 2021, 103, .	1.6	3
84	Complementary searches of low mass non-Abelian vector dark matter, dark photon, and dark Z . Physical Review D, 2021, 103, .	1.6	7
85	Flavor structure of anomaly-free hidden photon models. Physical Review D, 2021, 103, .	1.6	15
86	Test of Lepton-Flavor Universality in $B \rightarrow K^* \mu^+ \mu^-$ Decays at Belle. Physical Review Letters, 2021, 126, 161801.	2.9	108
87	Dark Sector first results at Belle II. Physica Scripta, 2021, 96, 084005.	1.2	4
88	Electric dipole moment of the tau lepton revisited. Physical Review D, 2021, 103, .	1.6	11
89	Dark Photon and Muon Inelastic Dark Matter Models at the High-Energy Intensity Frontier. Physical Review Letters, 2021, 126, 181801.	2.9	46
90	Heavy Z' bosons in the secluded $U(1)'$ model at hadron colliders. European Physical Journal C, 2021, 81, 466.	1.4	3

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91	Tests of the Atomki anomaly in lepton pair decays of heavy mesons. Physical Review D, 2021, 103, .	1.6	4
92	Super-factory of bottomed hadrons Belle II. Physics-Uspekhi, 2021, 64, 468-494.	0.8	6
93	New perspective in searching for axionlike particles from flavor physics. Physical Review D, 2021, 103, .	1.6	6
94	Role of $D(s)^*$ and their contributions in $B(s) \rightarrow D(s) \ell \ell$ decays. Physical Review D, 2021, 103, .	1.6	5
95	Three-loop off-forward evolution kernel for axial-vector operators in Larin's scheme. Physical Review D, 2021, 103, .	1.6	4
96	Particle Identification in Belle II Silicon Vertex Detector. , 2021, , .		1
97	Measurement of the branching fraction of the decay $B \rightarrow D^* \ell \ell$ in fully reconstructed events at Belle. Physical Review D, 2021, 103, .	1.6	5
98	A final word on FCNC-Baryogenesis from two Higgs doublets. SciPost Physics, 2021, 10, .	1.5	6
99	Magnetic moments of the spin- $\frac{1}{2}$ doubly charmed baryons in covariant baryon chiral perturbation theory. Physical Review D, 2021, 103, .	1.6	4
100	Model for the singlet-triplet leptoquarks. Physical Review D, 2021, 103, .	1.6	13
101	Hadronic Atom as a Key to Revealing the X 3872 Tj ETQq0 0 0 rGB /Overlock 10 Tf 50 322 Td (stretchy="false")</math>	2.9	8
102	Searching for lepton flavor violating interactions at future electron-positron colliders. Physical Review D, 2021, 104, .	1.6	4
103	Colored scalars mediated rare charm meson decays to invisible fermions. Physical Review D, 2021, 104, .	1.6	7
104	Leptoquark option for B -meson anomalies and leptonic signatures. Physical Review D, 2021, 104, .	1.6	27
105	Global analysis of hadronic two-body B decays in the perturbative QCD approach. Physical Review D, 2021, 104, .	1.6	12
106	Third order corrections to the semileptonic $b \rightarrow c \ell \ell$ and the muon decays. Physical Review D, 2021, 104, .	1.6	37
107	Combined Explanation of the $Z \rightarrow b \bar{b}$ Forward-Backward Asymmetry, the Cabibbo Angle Anomaly, and $\tilde{\chi}$ stret	2.9	33
108	Flavor-changing Majoron interactions with leptons. Physical Review D, 2021, 104, .	1.6	4

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109	Measurements of partial branching fractions of inclusive $B \rightarrow X u \bar{c}$ decays with hadronic tagging. Physical Review D, 2021, 104.	1.6	12
110	Measurements of partial branching fractions of inclusive $B \rightarrow X u \bar{c}$ decays with hadronic tagging. Physical Review D, 2021, 104.		

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127	Search for light dark matter in the NA64 experiment. <i>Physics-Uspexhi</i> , 2021, 64, 1286-1310.	0.8	6
128	Flavour anomalies in heavy quark decays. <i>Progress in Particle and Nuclear Physics</i> , 2021, 120, 103885.	5.6	42
129	Searches for Dark Photons at Accelerators. <i>Annual Review of Nuclear and Particle Science</i> , 2021, 71, 37-58.	3.5	30
130	A survey of heavy- Λ heavy hadronic molecules. <i>Communications in Theoretical Physics</i> , 2021, 73, 125201.	1.1	99
131	The τ challenges at FCC-ee. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	4
132	Single leptoquark solutions to the $B \rightarrow \tau \nu$ physics anomalies. <i>Physical Review D</i> , 2021, 104, .	1.6	101
133	Mixing and CP Violation in the Charm System. <i>Annual Review of Nuclear and Particle Science</i> , 2021, 71, 59-85.	3.5	16
134	Insights into the emergence of mass from studies of pion and kaon structure. <i>Progress in Particle and Nuclear Physics</i> , 2021, 120, 103883.	5.6	102
135	Polarization effects in the search for a dark vector boson at e^+e^- colliders. <i>Physical Review D</i> , 2021, 103, .	1.6	3
136	Lepton-pair production in dipion $\bar{l}l$, lepton decays. <i>Physical Review D</i> , 2021, 103, .	1.6	3
137	Explaining $b \rightarrow s \tau^+ \tau^-$ and the Cabibbo angle anomaly with a vector triplet. <i>Physical Review D</i> , 2021, 103, .	1.6	40
138	Searching in the dark: the hunt for the dark photon. <i>Reviews in Physics</i> , 2020, 5, 100042.	4.4	45
139	Analysing the charged scalar boson contribution to the charged-current B meson anomalies. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 035001.	1.4	8
140	Movable collimator system for SuperKEKB. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	0.6	17
141	S -wave and P -wave massless dark photons in the decays of charmed hadrons. <i>Physical Review D</i> , 2020, 102, .	1.6	13
142	Seeking massless dark photons in the decays of charmed hadrons. <i>Physical Review D</i> , 2020, 102, .	1.6	4
143	Expression of interest for the CODEX-b detector. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	63
144	Exploring Supersymmetric CP Violation after LHC Run-2 with Electric Dipole Moments and B Observables. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	4

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146	Where are χ_{c0} and higher χ_{cJ} wave states in the charmonium family? Physical Review D, 2021, 104, .	1.6	9
147	New anomaly observed in χ_{c0} supports the existence of the hypothetical $X(17)$ particle. Physical Review C. 2021, 104, .	1.1	31
148	Neutrino as the dark force. Physical Review D, 2021, 104, .	1.6	10
149	Study of the $\Upsilon(4660)$ from a light-quark perspective. Physical Review D, 2021, 104, .	1.6	1
150	B Discrepancies Hold Their Ground. Symmetry, 2021, 13, 1999.	1.1	3
151	Measurement of the doubly Cabibbo-suppressed decay $B \rightarrow D^* K^* \bar{K}^* \bar{K}^*$ with semileptonic tags. Physical Review D, 2021, 104, .	1.6	3
152	Imprint of SUSY in radiative $B \rightarrow \gamma K^* \bar{K}^*$ meson decays. Physical Review D, 2021, 104, .	1.6	0
153	Inelastic dark matter at the Fermilab Short Baseline Neutrino Program. Physical Review D, 2021, 104, .	1.6	14
154	Upper limits on branching ratios of the lepton-flavor-violating decays $B \rightarrow \tau^* \tau^* \tau^* \tau^*$ and $B \rightarrow \tau^* \tau^* \tau^* \tau^*$	1.6	0
155	Rare decays of B-hadrons. , 2019, , .		0
156	On the universal texture in the PA-2HDM for the V-spin case. International Journal of Modern Physics A, 2020, 35, 2050059.	0.5	0
157	On-line luminosity measurements at Belle II. Journal of Instrumentation, 2020, 15, C06067-C06067.	0.5	2
158	Belle2VR: An Interactive Virtual Reality Visualization of GEANT4 Event Histories. EPJ Web of Conferences, 2020, 245, 08003.	0.1	0
159	Challenges for tau physics at the TeraZ. European Physical Journal Plus, 2021, 136, 1.	1.2	4
160	Axial-vector contributions in two-photon reactions: Pion transition form factor and deeply-virtual Compton scattering at NNLO in QCD. Physical Review D, 2021, 104, .	1.6	11
161	Correlation of the hidden-charm molecular tetraquarks and the charmonium-like structures existing in the $B \rightarrow X^* Y^* Z^* K^*$ process. Physical Review D, 2021, 104, .	1.6	14
162	KEK and its plans. Journal of Instrumentation, 2020, 15, C07016-C07016.	0.5	1
163	Performance of the Belle II calorimeter trigger system at the SuperKEKB Phase 3 run. Journal of Instrumentation, 2020, 15, C09060-C09060.	0.5	0

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164	Belle II electromagnetic calorimeter and its performance during early SuperKEKB operation. Journal of Instrumentation, 2020, 15, C10016-C10016.	0.5	0
165	Phenomenology of the Massive Dark Photon. SpringerBriefs in Physics, 2021, , 47-67.	0.2	0
167	An extended 3-3-1 model with two scalar triplets and linear seesaw mechanism. European Physical Journal Plus, 2021, 136, 1.	1.2	6
168	Feebly-interacting particles: FIPs 2020 workshop report. European Physical Journal C, 2021, 81, 1.	1.4	130
169	Observation of the decay $D^0 \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2021, 104, .		
170	Z lepton flavour violation as a probe for new physics at future e^+e^- colliders. European Physical Journal C, 2021, 81, 1.	1.4	19
171	Probing the tau electric dipole moment at the BEPC-II collider. Physical Review D, 2021, 104, .	1.6	2
173	Restudy of the color-allowed two-body nonleptonic decays of bottom baryons Λ_b^0 and Λ_b^- supported by hadron spectroscopy. Physical Review D, 2022, 105, .	1.6	7
174	Two-Loop Four-Fermion Scattering Amplitude in QED. Physical Review Letters, 2022, 128, 022002.	2.9	11
175	Reflecting on chirality: C - P -violating extensions of the single scalar-leptoquark solutions for the $g_{\tau\tau}^{(2)}$. TiFTOq1	1.6	20
176	Experimental Review of Λ_b^0 Production. Symmetry, 2022, 14, 144.	1.1	5
177	X_{17} boson and the H		

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184	Signs, spin, SMEFT: Sum rules at dimension six. Physical Review D, 2022, 105, .	1.6	19
185	Low-Energy Interactions of Mesons with Participation of the First Radially Excited States in $U(3)\tilde{A}-U(3)$ NJL Model. Symmetry, 2022, 14, 308.	1.1	10
186	Semitaquonic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \text{b} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -hadron decays: A lepton flavor universality laboratory. Reviews of Modern Physics, 2022, 94, .	16.4	27
187	Punzi-loss:. European Physical Journal C, 2022, 82, 121.	1.4	2
188	Next-to-Next-to-Leading-Order QCD Prediction for the Photon-Pion Form Factor. Physical Review Letters, 2022, 128, 062003.	2.9	16
189	A model-independent analysis of $\text{\$b{\rightarrow} } \text{\$smu}^{\{+\}} \text{\$mu}^{\{-}\} \text{\$}$ transitions with GAMBIT $\hat{\text{\$}}^{\text{\$}}$ FlavBit. European Physical Journal C, 2021, 81, 1.	1.4	6
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191	Dineutrino modes probing lepton flavor violation. , 2022, , .		0
192	Perturbative QCD analysis of neutral B-meson decays into $\text{\$sigma sigma}$, $\text{\$sigma f}_0\text{\$}$ and $\text{\$f}_0$ $\text{\$}$. European Physical Journal C, 2022, 82, 1.	1.4	3
193	Probing invisible vector meson decays with the NA64 and LDMX experiments. Physical Review D, 2022, 105,	1.6	16
194	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \text{C} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{P} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -violating observables in four-body $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \text{B} \langle \text{mml:mi} \rangle \langle \text{mml:mo}$		

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257	Estimates for rare three-body decays of the Λ^0 baryon using chiral symmetry and the χ -even fraction of Λ^0	1.6	3
258	Physical Review D, 2022, 106, .	1.6	2
259	Effects from Hadronic Structure of Photon on $B \rightarrow \rho \gamma$ and $B_s \rightarrow \rho \gamma$ Decays. Chinese Physics C, 0, .	1.5	0
260	Tension between $B \rightarrow \rho \gamma$ and $B_s \rightarrow \rho \gamma$ Decays. Physical Review D, 2022, 106, .	1.6	2
261	Quark Nuclear Physics with Heavy Quarks. , 2022, , 1-43.		2
262	Strange quark mass effect in $B \rightarrow \rho \gamma$ decays. Physical Review D, 2022, 106, .	1.6	0
263	Semi-inclusive lepton flavor universality ratio in $b \rightarrow s \ell^+ \ell^-$ transitions. Physical Review D, 2022, 106, .	1.6	1
264	Belle II status and prospect. Nuclear and Particle Physics Proceedings, 2022, 318-323, 78-84.	0.2	1
265	A comprehensive study of the vector leptoquark with $U(1) \times B(1) \times L(2)$ on the B -meson and muon $g-2$ anomalies. Progress of Theoretical and Experimental Physics, 2023, 2023, .	1.8	3
266	Charged particle identification performance of the TOP counters in Belle II. Journal of Physics: Conference Series, 2022, 2374, 012107.	0.3	0
267	Absolute measurements of branching fractions of Cabibbo-suppressed hadronic $B \rightarrow \rho \gamma$ decays. Physical Review D, 2022, 106, .	1.6	1
268	Theoretical study of the 3S_1 $H(p, e^+ e^-) \rightarrow ^3S_1$ 4S_1 He and 3S_1 $He(n, e^+ e^-) \rightarrow ^3S_1$ 4S_1 He processes and the X17 anomaly. Journal of Physics: Conference Series, 2022, 2391, 012009.	0.3	0
269	Bottomed baryon decays with invisible Majorana fermions. Physical Review D, 2022, 106, .	1.6	2
270	Semileptonic form factors for $B \rightarrow D^* \ell \ell$ at nonzero recoil from $2+1$ -flavor lattice QCD. European Physical Journal C, 2022, 82, .	1.4	29
271	Probing light exotics from a hidden sector at $B \rightarrow \rho \gamma$ decays. Physical Review D, 2022, 106, .	1.6	3
272	Probing light exotics from a hidden sector at $B \rightarrow \rho \gamma$ decays. Physical Review D, 2023, 107, .	1.6	5
273	Tests of low-scale leptogenesis in charged lepton flavour violation experiments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2023, 837, 137643.	1.5	2
274	Semi-inclusive electroproduction of hidden-charm and double-charm hadronic molecules. Physical Review D, 2022, 106, .	1.6	3

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293	Dark states with electromagnetic form factors at electron colliders. Physical Review D, 2023, 107, .	1.6	1
294	Box-enhanced charged lepton flavor violation in the Grimus-Neufeld model. Physical Review D, 2023, 107, .	1.6	0
295	Measurement of branching fractions of $\hat{\tau} \rightarrow \hat{\nu}_\tau \gamma$ and $\hat{\tau} \rightarrow \hat{\nu}_\tau \mu \gamma$. Physical Review D, 2023, 107, .	1.6	1
296	Study of fundamental symmetries in the few-nucleon systems. Journal of Physics: Conference Series, 2023, 2453, 012022.	0.3	0
297	Probing the chirality structure in the lepton-flavor-violating Higgs decay $h \rightarrow \bar{l} l \nu$ at the LHC. Physical Review D, 2023, 107, .	1.6	0
298	Decays of B_c mesons with $\hat{c} \rightarrow \hat{s} \gamma$ and $\hat{c} \rightarrow \hat{s} \mu \gamma$. Physical Review D, 2023, 107, .	1.6	0
299	Lepton flavor violating Higgs decays $h \rightarrow \tau \mu \gamma$ and $h \rightarrow \tau \mu \nu$: A model independent analysis. Physical Review D, 2023, 107, .	1.6	6
300	Constraining lepton flavor violating Higgs couplings at the HL-LHC in the vector boson fusion channel. Physical Review D, 2023, 107, .	1.6	2
301	Flavour bounds on the flavon of a minimal and a non-minimal \mathcal{Z}_2 symmetry. European Physical Journal C, 2023, 83, .	1.4	1
302	Methods for high-precision determinations of radiative-leptonic decay form factors using lattice QCD. Physical Review D, 2023, 107, .	1.6	4
337	Quark Nuclear Physics with Heavy Quarks. , 2023, , 2963-3005.		0
355	Feebly-interacting particles: FIPs 2022 Workshop Report. European Physical Journal C, 2023, 83, .	1.4	10
363	B-physics from lattice gauge theory. European Physical Journal: Special Topics, 0, , .	1.2	0
378	Structure-dependent QED effects in exclusive B-meson decays. European Physical Journal: Special Topics, 0, , .	1.2	0