

Philip Ilten

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

13,352
citations

43973

48
h-index

20900

115
g-index

121
all docs

121
docs citations

121
times ranked

9203
citing authors

#	ARTICLE	IF	CITATIONS
1	An introduction to PYTHIA 8.2. Computer Physics Communications, 2015, 191, 159-177.	3.0	3,174
2	Test of Lepton Universality Using $B \rightarrow K^* \ell^+ \ell^-$ Angular Asymmetries Physical Review Letters, 2014, 113, 151601. arXiv:1405.5307 [hep-ph]	2.9	845
3	$B \rightarrow K^* \ell^+ \ell^-$ Angular Asymmetries Physical Review Letters, 2014, 113, 151601. arXiv:1405.5307 [hep-ph]		

#	ARTICLE	IF	CITATIONS
19	Search for Hidden-Sector Bosons in $B \rightarrow K^* \mu^+ \mu^-$ Decays. Physical Review Letters, 2015, 115, 161802.	2.9	138
20	Searching for long-lived particles beyond the Standard Model at the Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 090501.	1.4	133
21	First Observation of the Doubly Charmed Baryon Decay $\Lambda_{cc}^+ \rightarrow \Lambda^+ \mu^+ \mu^-$. Physical Review Letters, 2019, 123, 111801.	2.9	122
22	Proposed Inclusive Dark Photon Search at LHCb. Physical Review Letters, 2016, 116, 251803.	2.9	120
23	Measurement of the $B \rightarrow K^* \mu^+ \mu^-$ Violating Phase in the Decay $B \rightarrow K^* \mu^+ \mu^-$. Physical Review Letters, 2013, 111, 101801.	2.9	108
24	Search for Majorana Neutrinos in $B \rightarrow \mu^+ \mu^- \nu \bar{\nu}$ Decays. Physical Review Letters, 2014, 112, 131802.	2.9	106
25	Dark photons from charm mesons at LHCb. Physical Review D, 2015, 92, .	1.6	106
26	First Observation of $B \rightarrow K^* \mu^+ \mu^-$ Violation in the Decays of $B \rightarrow K^* \mu^+ \mu^-$. Physical Review Letters, 2013, 110, 221601.	2.9	105
27	Determination of the quark coupling strength $ V_{ub} $ using baryonic decays. Nature Physics, 2015, 11, 743-747.	6.5	105
28	Measurement of $B \rightarrow K^* \mu^+ \mu^-$ Violation in the Phase Space of $B \rightarrow K^* \mu^+ \mu^-$. Physical Review Letters, 2013, 111, 101801.	2.9	101
29	Observation of Excited Λ_{cc}^+ Baryons. Physical Review Letters, 2019, 123, 111801.	2.9	98
30	Search for the Decays $B \rightarrow K^* \mu^+ \mu^-$ and $B \rightarrow K^* \mu^+ \mu^-$. Physical Review Letters, 2013, 111, 101801.	2.9	81
31	Measurement of $B \rightarrow K^* \mu^+ \mu^-$ Violation in the Phase Space of $B \rightarrow K^* \mu^+ \mu^-$. Physical Review Letters, 2013, 111, 101801.	2.9	80
32	Search for Structure in the $B \rightarrow K^* \mu^+ \mu^-$ Mass Spectrum. Physical Review Letters, 2016, 117, 152003.	2.9	78
33	Measurement of $B \rightarrow K^* \mu^+ \mu^-$ Violation in the Phase Space of $B \rightarrow K^* \mu^+ \mu^-$. Physical Review Letters, 2013, 111, 101801.	2.9	75
34	Observation of the Decay $\Lambda_{cc}^+ \rightarrow \Lambda^+ \mu^+ \mu^-$. Physical Review Letters, 2019, 123, 111801.	2.9	72
35	Observation of $B \rightarrow K^* \mu^+ \mu^-$ Violation in the Phase Space of $B \rightarrow K^* \mu^+ \mu^-$. Physical Review Letters, 2013, 111, 101801.	2.9	65
36	Measurement of matter-antimatter differences in beauty baryon decays. Nature Physics, 2017, 13, 391-396.	6.5	64

#	ARTICLE	IF	CITATIONS
37	Expression of interest for the CODEX-b detector. European Physical Journal C, 2020, 80, 1.	1.4	63
38	First Observation of the Decay $B_c \rightarrow B^0 \tau^+ \nu_\tau$. Physical Review Letters, 2012, 108, 251802.	2.9	61
39	Determination of the Sign of the Decay Width Difference in the B_s^0 System. Physical Review Letters, 2012, 108, 241801.	2.9	61
40	Measurement of $B_c \rightarrow B^0 \tau^+ \nu_\tau$ in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2015, 114, 132001.	2.9	61
41	Observation of a Resonance in $B_c \rightarrow B^0 \tau^+ \nu_\tau$ at Low Recoil. Physical Review Letters, 2013, 111, 112003.	2.9	61
42	Measurement of the Mass Difference Between Neutral Charm-Meson Eigenstates. Physical Review Letters, 2019, 122, 231802.	2.9	55
43	Measurement of $\psi(2S)$ $\bar{\psi}(2S)$ polarisation in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2872.	1.4	53
44	First Observation of the Decay $B_c \rightarrow B^0 \tau^+ \nu_\tau$. Physical Review Letters, 2012, 108, 201601.	2.9	51
45	LHCb Topological Trigger Reoptimization. Journal of Physics: Conference Series, 2015, 664, 082025.	0.3	51
46	First Evidence of Direct CP Violation in Charmless Two-Body Decays of $B_c \rightarrow B^0 \tau^+ \nu_\tau$. Physical Review Letters, 2012, 108, 201601.	2.9	49
47	Observation of New Resonances in the $B_c \rightarrow B^0 \tau^+ \nu_\tau$ System. Physical Review Letters, 2019, 123, 152001.	2.9	49
48	First Measurement of Charm Production in its Fixed-Target Configuration at the LHC. Physical Review Letters, 2019, 122, 132002.	2.9	48
49	Search for the Lepton-Flavor-Violating Decays $B_c \rightarrow B^0 \tau^+ \nu_\tau$ and $B_c \rightarrow B^0 \tau^+ \nu_\tau$. Physical Review Letters, 2012, 108, 201601.	2.9	48
50	Design and performance of the LHCb trigger and full real-time reconstruction in Run 2 of the LHC. Journal of Instrumentation, 2019, 14, P04013-P04013.	0.5	47
51	Observation of Photon Polarization in the $B_c \rightarrow B^0 \tau^+ \nu_\tau$ Transition. Physical Review Letters, 2012, 108, 201601.	2.9	46
52	Measurement of $B_c \rightarrow B^0 \tau^+ \nu_\tau$ Parameters and Search for $B_c \rightarrow B^0 \tau^+ \nu_\tau$. Physical Review Letters, 2012, 108, 201601.	2.9	46
53	Observation of an Excited B_c State. Physical Review Letters, 2019, 122, 232001.	2.9	46
54	Measurement of the Difference of Time-Integrated CP Asymmetries in $B_c \rightarrow B^0 \tau^+ \nu_\tau$. Physical Review Letters, 2012, 108, 201601.	2.9	42

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55	Absolute luminosity measurements with the LHCb detector at the LHC. Journal of Instrumentation, 2012, 7, P01010-P01010.	0.5	41
56	Measurement of Antiproton Production in $p\bar{p} \rightarrow \text{He} + \dots$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2018, 121, 222001.	2.9	41
57	Search for Lepton Number Violating Decays $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2012, 108, 101601.	2.9	39
58	Study of $B \rightarrow \tau^+ \tau^- + \dots$ Production in Jets. Physical Review Letters, 2017, 118, 192001.	2.9	39
59	Amplitude Analysis of $B \rightarrow \tau^+ \tau^- + \dots$ Decays. Physical Review Letters, 2019, 123, 231802.	2.9	38
60	Precision Measurement of the $B \rightarrow \tau^+ \tau^- + \dots$ Lifetime. Physical Review Letters, 2013, 111, 102003.	2.9	35
61	Search for the Lepton-Flavor-Violating Decays $B_s \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2013, 111, 014180.	2.9	32
62	Search for Violations of Lorentz Invariance and C or P Symmetry in $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2012, 109, 151801.	2.9	31
63	Determination of $B \rightarrow \tau^+ \tau^- + \dots$ in $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2012, 109, 151801.	2.9	29
64	Collisions and Measurement of $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2011, 107, 21.	2.9	28
65	First Observation of a Baryonic B_c Decay. Physical Review Letters, 2014, 113, 152003.	2.9	28
66	Reinterpretation of LHC Results for New Physics: Status and recommendations after Run 2. SciPost Physics, 2020, 9, .	1.5	28
67	Evidence for $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2012, 109, 151801.	2.9	27
68	Violation in $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2012, 109, 151801.	2.9	27
69	Oscillations Evidence for the Strangeness-Changing Weak Decay $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2012, 109, 151801.	2.9	27
70	Observation of $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2017, 118, 111803.	2.9	25
71	Rare Decay $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2017, 118, 111803.	2.9	25
72	Evidence for the Rare Decay $B \rightarrow \tau^+ \tau^- + \dots$. Physical Review Letters, 2018, 120, 221803.	2.9	24

#	ARTICLE	IF	CITATIONS
73	<p>Independent Observation of Exotic Contributions to $B \rightarrow K^* \bar{K}^0$ Decays. Physical Review Letters, 2019, 122, 152002.</p> <p>The HepMC3 event record library for Monte Carlo event generators. Computer Physics Communications, 2021, 260, 107310.</p>	2.9	24
74	Challenges in Monte Carlo Event Generator Software for High-Luminosity LHC. Computing and Software for Big Science, 2021, 5, 1.	1.3	23
75	First Observation of Top Quark Production in the Forward Region. Physical Review Letters, 2015, 115, 112001.	2.9	22
76	Direct probe of the intrinsic charm content of the proton. Physical Review D, 2016, 93, .	1.6	22
77	Observation of $B \rightarrow K^* \bar{K}^0$ Final States. Physical Review Letters, 2012, 108, 151801.	2.9	21
78	Search for Rare $B \rightarrow K^* \bar{K}^0$ Decays. Physical Review Letters, 2017, 119, 181805.	2.9	21
79	Measurement of the CP Violation Parameter A_{CP}^{eff} in $D \rightarrow K^* \bar{K}^0$ and $D \rightarrow K^* \bar{K}^0$ Decays. Physical Review Letters, 2017, 119, 181805.	2.9	20
80	First Measurement of the $B \rightarrow K^* \bar{K}^0$ Violating Phase in $B \rightarrow K^* \bar{K}^0$ Decays. Physical Review Letters, 2013, 110, 241802.	2.9	19
81	Disentangling heavy flavor at colliders. Physical Review D, 2017, 96, .	1.6	19
82	$\tilde{\chi}_{c1}$ and $\tilde{\chi}_{c2}$ Resonance Parameters with the Decays $\tilde{\chi}_{c1,2} \rightarrow \gamma \bar{K}^0$. Physical Review Letters, 2017, 119, 221801.	1.6	18
83	Discovering true muonium at LHCb. Physical Review D, 2019, 100, .	1.6	18
84	Search for Lepton-Flavor Violating Decays $B \rightarrow K^* \bar{K}^0 e^+ e^-$. Physical Review Letters, 2019, 123, 241802.	2.9	18
85	Measurement of the $B \rightarrow K^* \bar{K}^0$ Violating Phase in $B \rightarrow K^* \bar{K}^0$ Decays. Physical Review Letters, 2014, 112, 111802.	2.9	17
86	Study of charmonium production in $B \rightarrow K^* \bar{K}^0$ hadron decays and first evidence for the decay $B \rightarrow K^* \bar{K}^0$. European Physical Journal C, 2017, 77, 609.	1.4	17
87	Measurement of the $B \rightarrow K^* \bar{K}^0$ Violating Phase in $B \rightarrow K^* \bar{K}^0$ Decays. Physical Review Letters, 2013, 110, 241802.	2.9	17
88	Lifetime in the $B \rightarrow K^* \bar{K}^0$ Decays. Physical Review Letters, 2017, 119, 221801.	1.6	18
89	Search for Lepton-Flavor Violating Decays $B \rightarrow K^* \bar{K}^0 e^+ e^-$. Physical Review Letters, 2019, 123, 241802.	2.9	18

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91	Measurement of $\langle B \rangle$ and $\langle D \rangle$. <i>Meson Lifetimes</i> . Physical Review Letters, 2017, 119, 161801.	2.9	15
92	First Observation of the Rare Purely Baryonic Decay $B_0 \rightarrow p \bar{p} \bar{K}^0$. Physical Review Letters, 2017, 119, 232001.	2.9	15
93	Event generator tuning using Bayesian optimization. Journal of Instrumentation, 2017, 12, P04028-P04028.	0.5	15
94	Variation with Proton-Proton Collision Energy and $\langle B \rangle$. Physical Review Letters, 2020, 124, 122002.	2.9	15
95	A study of the Z production cross-section in pp collisions at $\sqrt{s}=7, \text{ TeV}$ using tau final states. Journal of High Energy Physics, 2013, 2013, 1.	1.6	14
96	Measurement of the B^0 Meson Lifetime in $D_s \rightarrow \bar{K}^0$ Decays. Physical Review Letters, 2014, 113, 172001.	2.9	14
97	Observation of charmonium pairs produced exclusively in pp collisions. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 115002.	1.4	14
98	Mapping the material in the LHCb vertex locator using secondary hadronic interactions. Journal of Instrumentation, 2018, 13, P06008-P06008.	0.5	14
99	Amplitude Analysis of the Decay $B^0 \rightarrow K^+ K^- \pi^0$ and First Observation of the CP Asymmetry in $B^0 \rightarrow K^+ K^- \pi^0$. Physical Review Letters, 2018, 120, 261801.	2.9	14
100	Measurement of the $\langle B \rangle$ Asymmetry in $B \rightarrow C \rightarrow P$. Physical Review Letters, 2018, 120, 261801.	2.9	13
101	Observation of $B_{s1} \rightarrow B_s \pi^0 \pi^0$ and evidence for $B_{s1} \rightarrow B_s \pi^+ \pi^-$ decays. New Journal of Physics, 2014, 16, 123001.	1.2	13
102	Tau Decays in Pythia 8. Nuclear Physics, Section B, Proceedings Supplements, 2014, 253-255, 77-80.	0.5	13
103	First Observation of the Decays $B^0 \rightarrow D^+ K^- \pi^0$ and $B^0 \rightarrow D^0 K^+ \pi^-$. Physical Review Letters, 2012, 108, 161801.	2.9	12
104	A new algorithm for identifying the flavour of B mesons at LHCb. Journal of Instrumentation, 2016, 11, P05010-P05010.	0.5	12
105	Violation in $B \rightarrow C \rightarrow P$. Physical Review Letters, 2018, 120, 261801.	2.9	12
106	Measurement of Charged Hadron Production in $B \rightarrow D$. Physical Review Letters, 2019, 123, 232001.	2.9	10
107	Search for CP Violation in $D_s \rightarrow K^0 \pi^+$, $D_s \rightarrow K^0 K^+$, and $D_s \rightarrow \bar{K}^0 \pi^+$ Decays. Physical Review Letters, 2019, 122, 191803.	2.9	9
108	Observation of $B \rightarrow B \pi^0$. Physical Review Letters, 2019, 123, 232001.	2.9	9

#	ARTICLE	IF	CITATIONS
109	Limits on neutral Higgs boson production in the forward region in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
110	Observation of $B^+ \rightarrow \bar{c} \psi \psi^+ \psi^-$ and $B^+ \rightarrow \bar{c} \psi \psi^+ \psi^-$. European Physical Journal C, 2017, 77, 72.	1.4	7
111	Observation of $B^0 \rightarrow D^+ K^-$ and Evidence for $B^0 \rightarrow D^+ K^-$ Decays. Physical Review Letters, 2016, 116, 161802.	2.9	6
112	Search for Baryon-Number Violating $\bar{b} \rightarrow \bar{c} \psi \psi^+ \psi^-$ Oscillations. Physical Review Letters, 2017, 119, 181807.	2.9	6
113	Forming molecular states with hadronic rescattering. European Physical Journal A, 2022, 58, 1. Isospin Amplitudes in $\bar{b} \rightarrow \bar{c} \psi \psi^+ \psi^-$	1.0	6
114	$\bar{b} \rightarrow \bar{c} \psi \psi^+ \psi^-$		