

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	Forming molecular states with hadronic rescattering. European Physical Journal A, 2022, 58, 1.	1.0	6
2	The HepMC3 event record library for Monte Carlo event generators. Computer Physics Communications, 2021, 260, 107310.	3.0	23
3	CIMBA: Fast Monte Carlo generation using cubic interpolation. Computer Physics Communications, 2021, 258, 107622.	3.0	2
4	Challenges in Monte Carlo Event Generator Software for High-Luminosity LHC. Computing and Software for Big Science, 2021, 5, 1.	1.3	23
5	Probing QCD with LHCb. International Journal of Modern Physics A, 2021, 36, 2130011.	0.5	0
6	Isospin Amplitudes in $\langle \hat{J} \hat{b} 0 \rangle$		

#	ARTICLE	IF	CITATIONS
19	Observation of an Excited B_c State. Physical Review Letters, 2019, 122, 232001.	2.9	43
20	Search for Lepton-Universality Violation in $B \rightarrow K^* \ell \ell'$ Decays. Physical Review Letters, 2019, 122, 191801.	2.9	355
21	Search for Lepton-Universality Violation in $B \rightarrow K^* \ell \ell'$ Decays. Physical Review Letters, 2019, 122, 152002.	2.9	24
22	First Measurement of Charm Production in its Fixed-Target Configuration at the LHC. Physical Review Letters, 2019, 122, 132002.	2.9	48
23	Discovering true muonium at LHCb. Physical Review D, 2019, 100, .	1.6	18
24	Search for the Lepton-Flavor-Violating Decays $B \rightarrow K^* \ell \ell'$ and $B \rightarrow K^* \ell \ell'$. Physical Review Letters, 2019, 123, 241802.	2.9	18
25	Search for Lepton-Flavor Violating Decays $B \rightarrow K^* \ell \ell'$. Physical Review Letters, 2019, 123, 241802.	2.9	18
26	Amplitude Analysis of $B \rightarrow K^* \ell \ell'$ Decays. Physical Review Letters, 2019, 123, 231802.	2.9	38
27	-Tagged Jets in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 123, 231802.	2.9	10
28	Measurement of the Ratio of the $B \rightarrow K^* \ell \ell'$ and $B \rightarrow K^* \ell \ell'$. Physical Review Letters, 2018, 120, 171802.	2.9	204
29	$B \rightarrow K^* \ell \ell'$. Physical Review Letters, 2018, 120, 171802.	2.9	204

#	ARTICLE	IF	CITATIONS
37	Measurement of matter-antimatter differences in beauty baryon decays. Nature Physics, 2017, 13, 391-396.	6.5	64
38	Observation of $B \rightarrow \bar{D}^* \bar{K}^0$ and $B \rightarrow \bar{D}^* \bar{K}^*$ Decays. European Physical Journal C, 2017, 77, 72.	1.4	7
39	Study of charmonium production in b -hadron decays and first evidence for the decay $B \rightarrow \bar{D}^* \bar{K}^0$. European Physical Journal C, 2017, 77, 609.	1.4	17
40	Measurement of $B \rightarrow D^* \bar{K}^0$ and $B \rightarrow D^* \bar{K}^*$ Decays. Physical Review Letters, 2017, 119, 101801.	2.9	15
41	Meson Lifetimes. Physical Review Letters, 2017, 119, 101801.	2.9	417
42	Measurement of the CP Violation Parameter A_{FB}^0 in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \bar{K}^0 \bar{K}^0$ Decays. Physical Review Letters, 2017, 118, 261803.	2.9	20
43	Observation of $B \rightarrow D^* \bar{K}^0$ and $B \rightarrow D^* \bar{K}^*$ Decays. Physical Review Letters, 2017, 118, 192001.	2.9	25
44	Observation of Five New Narrow States Decaying to $B \rightarrow D^* \bar{K}^0$ and $B \rightarrow D^* \bar{K}^*$ Decays. Physical Review Letters, 2017, 118, 192001.	2.9	234
45	Branching Fraction and Effective Lifetime and Search for $B \rightarrow D^* \bar{K}^0$ and $B \rightarrow D^* \bar{K}^*$ Decays. Physical Review Letters, 2017, 118, 251802.	2.9	220
46	Study of $B \rightarrow D^* \bar{K}^0$ and $B \rightarrow D^* \bar{K}^*$ Production in Jets. Physical Review Letters, 2017, 118, 192001.	2.9	39
47	Observation of $B \rightarrow D^* \bar{K}^0$ and $B \rightarrow D^* \bar{K}^*$ Decays. Physical Review Letters, 2017, 118, 251802.	2.9	81
48	$\bar{c}1$ and $\bar{c}2$ Resonance Parameters with the Decays $\bar{c}1, \bar{c}2 \rightarrow \bar{D}^* \bar{K}^0$. Physical Review Letters, 2017, 119, 221801.	2.9	18
49	Observation of $B \rightarrow D^* \bar{K}^0$ and $B \rightarrow D^* \bar{K}^*$ Meson Decays to $B \rightarrow D^* \bar{K}^0$ and $B \rightarrow D^* \bar{K}^*$ Decays. Physical Review Letters, 2017, 119, 181807.	2.9	21
50	Search for Baryon-Number Violating Oscillations. Physical Review Letters, 2017, 119, 181807.	2.9	6
51	First Observation of the Rare Purely Baryonic Decay $B \rightarrow \bar{D}^* \bar{K}^0$. Physical Review Letters, 2017, 119, 232001.	2.9	15
52	Disentangling heavy flavor at colliders. Physical Review D, 2017, 96, .	1.6	19
53	Event generator tuning using Bayesian optimization. Journal of Instrumentation, 2017, 12, P04028-P04028.	0.5	15
54	A new algorithm for identifying the flavour of $B \rightarrow D^* \bar{K}^0$ mesons at LHCb. Journal of Instrumentation, 2016, 11, P05010-P05010.	0.5	12

#	ARTICLE	IF	CITATIONS
55	Measurement of $\langle C \rangle$ and $\langle P \rangle$ Violation in $B \rightarrow D$ Decays. Physical Review Letters, 2016, 117, 261801.	2.9	12
56	Direct probe of the intrinsic charm content of the proton. Physical Review D, 2016, 93, .	1.6	22
57	First Observation of $D \rightarrow a^0$ Oscillations in D . Physical Review Letters, 2016, 116, 161802.	2.9	27
58	Proposed Inclusive Dark Photon Search at LHCb. Physical Review Letters, 2016, 116, 251803.	2.9	120
59	Observation of $B_s \rightarrow D^0 K^0$ and Evidence for $B_s \rightarrow D^0 K^0$ Decays. Physical Review Letters, 2016, 116, 161802.	2.9	6
60	Measurement of the Difference of Time-Integrated Asymmetries in $B \rightarrow D$ Decays. Physical Review Letters, 2016, 116, 161803.	2.9	42
61	Search for Structure in the $B \rightarrow K$ Mass Spectrum. Physical Review Letters, 2016, 117, 152003.	2.9	31
62	Search for Structure in the $B \rightarrow K$ Mass Spectrum. Physical Review Letters, 2016, 117, 152003.	2.9	31
63	Dark photons from charm mesons at LHCb. Physical Review D, 2015, 92, .	1.6	106
64	First Observation of Top Quark Production in the Forward Region. Physical Review Letters, 2015, 115, 112001.	2.9	22
65	Evidence for the Strangeness-Changing Weak Decay $B \rightarrow K^0 \pi^0$. Physical Review Letters, 2015, 115, 112001.	2.9	25
66	Measurements of the Ratio of Branching Fractions $B \rightarrow K^0 \pi^0$. Physical Review Letters, 2015, 115, 112001.	2.9	25

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73	Z and W Physics with Tau-Leptons at the LHC. Nuclear and Particle Physics Proceedings, 2015, 260, 211-215.	0.2	1
74	An introduction to PYTHIA 8.2. Computer Physics Communications, 2015, 191, 159-177.	3.0	3,174
75	Observation of the rare $B_s^0 \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. Nature, 2015, 522, 68-72.	13.7	390
76	Measurement of the $C\!-\!P$ -Violating Phase $\arg(\lambda_{cb})$ in $B \rightarrow \mu^+ \mu^-$ decays. Evidence for $C\!-\!P$ Violation in $B \rightarrow \mu^+ \mu^-$ decays. New Journal of Physics, 2014, 16, 123001.	2.9	29
77	First Observation of a Baryonic B_c^+ Decay. Physical Review Letters, 2014, 113, 152003.	1.2	13
78	Search for Majorana Neutrinos in $B \rightarrow \mu^+ \mu^-$ Decays. Physical Review Letters, 2014, 112, 131802.	2.9	27
79	Measurement of the B_c^+ Meson Lifetime in $D_s \rightarrow \mu^+ \mu^-$ Decays. Physical Review Letters, 2014, 113, 172001.	2.9	28
80	Observation of Overlapping Spin-1 and Spin-3 $B \rightarrow \mu^+ \mu^-$ decays. Physical Review Letters, 2014, 113, 172001.	2.9	106
81	Observation of $B \rightarrow \mu^+ \mu^-$ decays. Physical Review Letters, 2014, 113, 172001.	2.9	14
82	Test of Lepton Universality Using $B \rightarrow \mu^+ \mu^-$ decays. Physical Review Letters, 2014, 113, 151601.	2.9	80
83	Tau Decays in Pythia 8. Nuclear Physics, Section B, Proceedings Supplements, 2014, 253-255, 77-80.	2.9	17
84	Observation of charmonium pairs produced exclusively in pp collisions. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 115002.	2.9	845
85	Measurement of $\psi(2S)$ polarisation in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2872.	2.9	13
86	Observation of the Resonant Character of the $B \rightarrow \mu^+ \mu^-$ transition. Physical Review Letters, 2014, 112, 161801.	1.4	53
87	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.	2.9	325
88	Observation of Photon Polarization in the $B \rightarrow \mu^+ \mu^-$ transition. Physical Review Letters, 2014, 112, 161801.	2.9	46
89	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.	2.9	7

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91	First Observation of $C \rightarrow P$ Violation in the Decays of $B_c \rightarrow B_s$. Physical Review Letters, 2013, 110, 221601.	2.9	105
92	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
93	Observation of $D^0 \rightarrow D^+ \pi^-$. Physical Review Letters, 2013, 110, 101802.	2.9	65
94	Search for the Lepton-Flavor-Violating Decays $B_s^0 \rightarrow e^+ \mu^-$ and $B^0 \rightarrow e^+ \mu^-$. Physical Review Letters, 2013, 111, 141801.	2.9	13
95	Precision Measurement of the $B_c \rightarrow B_s$ Mixing Parameters and Search for $C \rightarrow P$ -Violating Phase in $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 181801.	2.9	19
96	Measurement of Form-Factor-Independent Observables in the Decay $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 181801.	2.9	13
97	First Measurement of the $C \rightarrow P$ -Violating Phase in $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 181801.	2.9	19
98	Determination of the $B_c \rightarrow B_s$ Mixing Parameters and Search for $C \rightarrow P$ -Violating Phase in $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 181801.	2.9	19
99	Observation of the Decay $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 181801.	2.9	72
100	Measurement of Form-Factor-Independent Observables in the Decay $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 181801.	2.9	101
101	Measurement of the $B_c \rightarrow B_s$ Mixing Parameters and Search for $C \rightarrow P$ -Violating Phase in $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 181801.	2.9	13
102	Observation of a Resonance in $B_c \rightarrow B_s$ at Low Recoil. Physical Review Letters, 2013, 111, 112003.	2.9	15
103	First Observation of the Decay $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 112003.	2.9	51
104	Search for Rare $B_c \rightarrow B_s$. Physical Review Letters, 2013, 110, 151803.	2.9	21
105	W and Z production in the forward region with LHCb. , 2012, , .		0
107	First Observation of the Decay $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 181801.	2.9	19
108	Measurement of the $B_c \rightarrow B_s$ Mixing Parameters and Search for $C \rightarrow P$ -Violating Phase in $B_c \rightarrow B_s$. Physical Review Letters, 2013, 111, 181801.	2.9	19

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109	First Observation of the Decays $B^0 \rightarrow D^+ K^{*0}$ and $B^0 \rightarrow D^+ K^{*0}$. Physical Review Letters, 2012, 108, 161801.		12
110	Observation of Excited $B^0 \rightarrow D^+ K^{*0}$ and $B^0 \rightarrow D^+ K^{*0}$. Physical Review Letters, 2012, 109, 172003.	2.9	98
111	Determination of the Sign of the Decay Width Difference in the $B^0 \rightarrow D^+ K^{*0}$ and $B^0 \rightarrow D^+ K^{*0}$. Physical Review Letters, 2012, 108, 241801.	2.9	61
112	Search for Lepton Number Violating Decays $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$. Physical Review Letters, 2012, 108, 101601.	2.9	39
113	Measurement of the $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$ Violating Phase in the Measurements of $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$. Physical Review Letters, 2012, 108, 101601.	2.9	108
114	and Mass with the $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$. Physical Review Letters, 2012, 108, 101601.	2.9	75
115	Observation of $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$. Physical Review Letters, 2012, 109, 131801.	2.9	27
116	Observation of $B^0 \rightarrow D^+ K^{*0}$ Final States. Physical Review Letters, 2012, 108, 151801.	2.9	21
117	Absolute luminosity measurements with the LHCb detector at the LHC. Journal of Instrumentation, 2012, 7, P01010-P01010.	0.5	41
118	Evidence for $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$ Violation in Time-Integrated $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$. Physical Review Letters, 2012, 109, 151801.	2.9	181
119	Determination of $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$ Violation in Charmless Two-Body Decays of $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$. Physical Review Letters, 2012, 109, 151801.	2.9	49
120	Collisions and Measurement of the $B \rightarrow \tau^+ \nu_\tau \nu_\tau$ and $B \rightarrow \tau^+ K^0 \nu_\tau$. Physical Review Letters, 2011, 107, 21	2.9	28