

Murdo Traill

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/924351/publications.pdf>

Version: 2024-02-01

110
papers

2,452
citations

279798
23
h-index

243625
44
g-index

120
all docs

120
docs citations

120
times ranked

6029
citing authors

#	ARTICLE	IF	CITATIONS
1	Test of lepton universality with $B^0 \rightarrow K^* 0 \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	425
2	Angular analysis of the $B^0 \rightarrow K^* 0 \pi^+ \pi^-$ decay using 3 fb $^{-1}$ of integrated luminosity. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	304
3	Measurements of the S-wave fraction in $B^0 \rightarrow K^+ \pi^-$ and the $B^0 \rightarrow -(892)0 \pi^+ \pi^-$ differential branch. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	75
4	Study of the D 0 p amplitude in $b \bar{b} \rightarrow D^0 \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2017, 2017, 14.7	4.7	54
5	Search for massive long-lived particles decaying semileptonically in the LHCb detector. <i>European Physical Journal C</i> , 2017, 77, 224.	3.9	54
6	Measurement of the phase difference between short- and long-distance amplitudes in the $B^+ \rightarrow K^+ \pi^+ \pi^-$ decay. <i>European Physical Journal C</i> , 2017, 77, 161.	3.9	51
7	Design and performance of the LHCb trigger and full real-time reconstruction in Run 2 of the LHC. <i>Journal of Instrumentation</i> , 2019, 14, P04013-P04013.	1.2	47
8	Study of prompt D 0 meson production in pPb collisions at $\sqrt{s_{NN}} = 5 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	45
9	Study of the $\Xi_c(3823)$ and $\Xi_c(3872)$ states in $B^+ \rightarrow J/\psi \Xi_c^0$ decays. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	42
10	Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , 2017, 77, 812.	3.9	41
11	Search for beautiful tetraquarks in the $\Xi_c(1S) \pi^+ \pi^-$ invariant-mass spectrum. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	39
12	Search for the doubly charmed baryon Ξ_{cc}^0 . <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	35
13	Measurement of the J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	34
14	Angular moments of the decay $B^0 \rightarrow \Lambda^0 \bar{\Lambda}^0 \pi^+ \pi^-$ at low hadronic recoil. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	34
15	Precision measurement of the \varXi_{cc}^0 mass. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	33
16	Test of lepton universality with $\Lambda_b^0 \rightarrow p K^- \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	31
17	Measurement of the CKM angle β from a combination of LHCb results. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	29
18	Near-threshold $D \bar{D}$ spectroscopy and observation of a new charmonium state. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	29

#	ARTICLE	IF	CITATIONS
19	Studies of the resonance structure in $D^0 \rightarrow K^+ \pi^- \pi^+ \pi^-$ and $D^0 \rightarrow K^+ \pi^- \pi^+ \pi^+$ decays. European Physical Journal C, 2018, 78, 443.	3.9	28
20	Search for Higgs-like bosons decaying into long-lived exotic particles. European Physical Journal C, 2016, 76, 664.	3.9	26
21	Observations of $b \bar{b} \rightarrow K^+ K^-$ and $b \bar{b} \rightarrow K^+ K^-$ decays and searches for other $b \bar{b}$ and $\bar{b} b$ decays to final states. Journal of High Energy Physics, 2016, 2016, 1.	4.7	24
22	Observation of a new baryon state in the $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ mass spectrum. Journal of High Energy Physics, 2020, 2020, 1.	4.7	24
23	Searches for low-mass dimuon resonances. Journal of High Energy Physics, 2020, 2020, 1.	4.7	24
24	Measurement of the forward Z boson production cross-section in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
25	Search for the lepton-flavour violating decays $B(s) \rightarrow e^\pm \mu^\mp$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21
26	Evidence for the decay $B_s^0 \rightarrow \overline{K}^0 \ast \mu^+ \mu^-$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
27	Updated measurement of time-dependent CP-violating observables in $B_s^0 \rightarrow J/\psi K^+ K^-$ decays. European Physical Journal C, 2019, 79, 1.	3.9	20
28	Resonances and CP violation in $B_s^0 \rightarrow J/\psi K^+ K^-$ decays in the mass region above the $\psi(1020)$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	19
29	Strong constraints on the $b \bar{b} \rightarrow \gamma \gamma$ photon polarisation from $B(b \bar{b} \rightarrow K^* \ell^+ \ell^-)$ decays. Journal of High Energy Physics, 2020, 2020, 1.	4.7	19
30	Measurement of forward $W \rightarrow e\bar{\nu}_e$ production in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	18
31	Observation of $b \bar{b} \rightarrow (2S) p \bar{K}$ and $b \bar{b} \rightarrow J/\psi \ell^+ \ell^- p \bar{K}$ decays and a measurement of the $b \bar{b}$ baryon mass. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
32	Study of charmonium production in $b \bar{b} \rightarrow \phi \phi$ decays and first evidence for the decay $B_s^0 \rightarrow J/\psi J/\psi$. European Physical Journal C, 2017, 77, 609.	3.9	17
33	Improved limit on the branching fraction of the rare decay $K^0 \rightarrow \mu^+ \mu^-$. European Physical Journal C, 2017, 77, 678.	3.9	17
34	Measurement of the $\eta_c(1S)$ production cross-section in $p + p$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	17
35	Measurement of forward W and Z boson production in association with jets in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
36	Study of τ production in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16

#	ARTICLE	IF	CITATIONS
37	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^{+/-} \pi^{1/4 \pm 1/4}$ in the $K(2470)$ region. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	15	
38	Observation of the suppressed decay $B^0 \rightarrow \rho^0 \pi^0$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	15	
39	Search for excited B_c^+ states. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	15
40	Search for heavy neutral leptons in $W \rightarrow \mu^+ \mu^-$ decays. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	15
41	Study of $\Upsilon(2S)$ production and cold nuclear matter effects in $p\bar{p}$ collisions at $s = 5$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	14
42	Measurement of the CKM angle β using $B \rightarrow D K \bar{K}$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	14
43	Prompt ψ_c production in $p\bar{p}$ collisions at $s = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	14
44	Search for CP violation in $\varXi_c \rightarrow c \bar{c} \pi^+ \pi^-$ decays using model-independent techniques. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	14
45	Measurement of the ratio of branching fractions $B_c \rightarrow B_c \pi^+ / \Upsilon \rightarrow B_c \pi^+$. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	13
46	Study of $D_s J/\psi$ mesons decaying to $D_s \rightarrow K S$ and $D_s^* \rightarrow K \pi$ final states. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	13
47	Measurement of CP asymmetry in $B^0 \rightarrow D^0 \bar{D}^0$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 47.	4.7	13
48	Measurement of ψ production in $p\bar{p}$ collisions at $s = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	13
49	Search for the lepton flavour violating decay $B^+ \rightarrow K^+ \ell^+ \ell^-$ using $B_s^0 \rightarrow \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	13
50	Search for the doubly heavy Ξ_b^0 baryon via decays to $D \bar{D} K \bar{K}$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	13
51	Search for decays of neutral beauty mesons into four muons. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	12
52	Measurement of the inelastic pp cross-section at a centre-of-mass energy of 13 TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	12
53	Amplitude analysis of $B^0 \rightarrow K^0 \bar{K}^0$ decays. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	12
54	New algorithms for identifying the flavour of B^0 mesons using pions and protons. <i>European Physical Journal C</i> , 2017, 77, 238.	3.9	11

#	ARTICLE	IF	CITATIONS
55	First measurement of the CP-violating phase ϕ_s in $B^0 \rightarrow K^+ K^-$ decays. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
56	Search for CP violation using triple product asymmetries in $B^0 \rightarrow p\bar{K}^0 \pi^+\pi^-$, $B^0 \rightarrow p\bar{K}^0 K^+K^-$ and $\bar{D}^0 \rightarrow b\bar{b}$ decays. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
57	First observation of $B^+ \rightarrow D^+ K^+$ decays and a search for $B^+ \rightarrow D^+ \eta$ decays. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
58	Amplitude analysis of the $B_{s0}^0 \rightarrow K^0 \bar{K}^0$ decays and measurement of the branching fraction of the $B_{s0}^0 \rightarrow K^0 \bar{K}^0$ decay. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
59	Measurements of CP asymmetries in charmless four-body $\Lambda_c^0 \rightarrow \Lambda_b^0 \eta$ and $\Lambda_c^0 \rightarrow \Lambda_b^0 \eta'$ decays. European Physical Journal C, 2019, 79, 1.	3.9	11
60	Search for the rare decay $B^+ \rightarrow \mu^+ \mu^- \mu^+ \mu^- \mu^+ \mu^-$. European Physical Journal C, 2019, 79, 1.	3.9	11
61	A search for $\Xi_c^+ \rightarrow \mathrm{cc}^+ \pi^+ \pi^+ \pi^-$ decays. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
62	Measurement of the $\Lambda_b^0 \rightarrow J/\psi \pi^-$ angular distribution and the $\Lambda_b^0 \rightarrow \pi^-$ polarisation in pp collisions. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
63	Evidence for the two-body charmless baryonic decay $B^+ \rightarrow p \bar{K}^-$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
64	Study of $b\bar{b}$ correlations in high energy proton-proton collisions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
65	Search for a dimuon resonance in the $\tilde{\chi}_1^0$ mass region. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
66	Measurement of branching fractions of charmless four-body $b \bar{b}$ and $\tilde{b} \bar{b}$ decays. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
67	Dalitz plot analysis of the $D^+ \rightarrow K^+ K^+ K^-$ decay. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
68	Observation of CP violation in two-body $B_{s0}^0 \rightarrow \pi^+ \pi^-$ -meson decays to charged pions and kaons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
69	Model-independent measurement of the CKM angle β using $B^0 \rightarrow D^0 \bar{K}^0$ decays with $D^0 \rightarrow \pi^+ \pi^-$ and $K^0 \rightarrow K^+ K^-$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	9
70	Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at $s = 7 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
71	Measurement of the $Y(nS)$ polarizations in pp collisions at $s = 7 \text{ TeV}$ and 8 TeV . Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
72	Search for lepton-flavour-violating decays of Higgs-like bosons. European Physical Journal C, 2018, 78, 1008.	3.9	9

#	ARTICLE	IF	CITATIONS
73	Study of $\mathrm{B}^0 \rightarrow e^+ e^- K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	9
74	Search for long-lived particles decaying to $e^\pm \mu^\mp \nu_\mu \bar{\nu}_e$. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	9
75	Measurement of CP observables in $B^\pm \rightarrow D^{(*)} K^\pm$ and $B^\pm \rightarrow D^{(*)} \bar{D}^\pm$ decays using two-body D final states. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	9
76	Observation of the decay $B^0 \rightarrow (2S) \pi^\pm$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	8
77	Precision measurement of the c_c^+ meson mass. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	8
78	Search for the doubly charmed baryon $\varXi_c^+ \pi^- \pi^+$ final state. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	8
79	Measurement of CP observables in $B^\pm \rightarrow D K^* \bar{K}^\pm$ decays using two- and four-body D final states. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	7
80	Measurement of the time-integrated CP asymmetry in $D_0 \rightarrow K^0 S$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	7
81	Study of the $B_0 \rightarrow (770)^0 K^*(892)^0$ decay with an amplitude analysis of $B_0 \rightarrow (K^+ K^-)(K^+ K^-)$ decays. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	7
82	Observation of the $\Lambda_b^0 \rightarrow \chi_{c1}(3872) p \bar{K}^0$ decay. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	7
83	Search for CP violation through an amplitude analysis of $D_0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	7
84	Measurement of the shape of the $B_s \rightarrow D_s^* \mu^+ \mu^-$ differential decay rate. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	7
85	Measurement of $Z \rightarrow l^+ l^-$ production in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	6
86	Measurement of CP violation in the $B_s \rightarrow \phi \phi$ decay and search for the $B_0 \rightarrow l^+ l^-$ decay. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	6
87	Measurement of the CKM angle β in $B^\pm \rightarrow D K^\pm$ and $B^\pm \rightarrow D \bar{D}^\pm$ decays with $D \rightarrow K^0 S$. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	6
88	Measurement of the branching fraction of the $B^0 \rightarrow D^+ \pi^-$ decay. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	6
89	Measurement of D_s^\pm production asymmetry in pp collisions at $\sqrt{s} = 7 \text{ and } 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	5
90	Measurement of the ratio of branching fractions of the decays $B^0 \rightarrow (2S) \pi^\pm$ and $B^0 \rightarrow J/\psi \pi^\pm$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	5

#	ARTICLE	IF	CITATIONS
91	Measurement of CP observables in the process $B^0 \rightarrow D^* K^0$ with two- and four-body D decays. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	5
92	Measurement of forward top pair production in the dilepton channel in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	4
93	Measurement of CP violation in $B^0 \rightarrow D_s^{*-} \ell^- \bar{\nu}_\ell$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	4
94	Measurement of CP observables in $B^\pm \rightarrow D K^\pm$ and $B^\pm \rightarrow D \bar{K}^\pm$ with D $\rightarrow S \pi^0$ decays. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	4
95	Measurement of differential forward $b \bar{b}$ - and $c \bar{c}$ -dijet cross-sections in the forward region of pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	4
96	Measurement of the CKM angle β and mixing frequency with $B_s^0 \rightarrow D_s^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	4
97	Observation of the semileptonic decay $B^0 \rightarrow \mu^+ \mu^-$. <i>Journal of High Energy Physics</i> , 2020, 2020, .	4.7	4
98	Search for the $B_s^0 \rightarrow \mu^+ \mu^-$ decay. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	3
99	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^+ \rightarrow J/\psi \pi^+$ and $B^+ \rightarrow J/\psi K^+$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	3
100	Measurement of the branching fraction and CIP asymmetry in $B^0 \rightarrow J/\psi \eta$ decays. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	3
101	Searches for 25 rare and forbidden decays of D^+ and D_s^+ mesons. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	3
102	Measurement of the CP asymmetry in $B^+ \rightarrow D^+ D^* \pi^0$ and $B^+ \rightarrow D^+ \bar{D}^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	2
103	Observation of the doubly Cabibbo-suppressed decay $B^0 \rightarrow \mu^+ \mu^-$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	2
104	Observation of the $B^0 \rightarrow D^* \bar{D}^0 \pi^0$ decay. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	2
105	Search for the rare decay $B^0 \rightarrow J/\psi \pi^0$. <i>Chinese Physics C</i> , 2021, 45, 043001.	3.7	2
106	Measurements of the S-wave fraction in $B^0 \rightarrow K^+ \pi^-$, $K^+ \pi^- \pi^0$, $K^+ \pi^- \eta$, $K^+ \pi^- \eta'$ decays and the $B^0 \rightarrow K^+ \bar{K}^-(892) \pi^0$ differential branching fraction. <i>Nature</i> , 2016, 2016, 1.	4.7	2
107	Measurement of CP violation in $B^0 \rightarrow D^+ \bar{D}^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	2
108	First measurement of the CIP-violating phase in $B^0 \rightarrow D^+ \bar{D}^0 \pi^0$. <i>JHEP</i> , 2019, 04, 001.	3.9	2

ARTICLE

IF

CITATIONS

- 109 Observation of the decay $\overline{B} \rightarrow \Lambda_c^+ K^+ K^-$ in the Λ_c mass region. 4.7 1
Journal of High Energy Physics, 2018, 2018, 1.
- 110 Measurement of branching fraction ratios for $B^+ \rightarrow D^* K^+$, $B^+ \rightarrow D^* D K^+$, and $B^0 \rightarrow D^* D K^+$ decays. 4.7 1
Journal of High Energy Physics, 2020, 2020, .