

Germán Rodrigo

List of Publications by Year in descending order

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113
papers

4,854
citations

87888

38
h-index

91884

69
g-index

113
all docs

113
docs citations

113
times ranked

5525
citing authors

#	ARTICLE	IF	CITATIONS
1	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
2	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
3	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
4	Quest for precision in hadronic cross sections at low energy: Monte Carlo tools vs. experimental data. European Physical Journal C, 2010, 66, 585-686.	3.9	270
5	Charge asymmetry of heavy quarks at hadron colliders. Physical Review D, 1999, 59, .	4.7	187
6	Charge Asymmetry in Hadroproduction of Heavy Quarks. Physical Review Letters, 1998, 81, 49-52.	7.8	184
7	Charge asymmetries of top quarks at hadron colliders revisited. Journal of High Energy Physics, 2012, 2012, 1.	4.7	154
8	Radiative return at NLO and the measurement of the hadronic cross-section in electron-positron annihilation. European Physical Journal C, 2002, 24, 71-82.	3.9	146
9	Top quarks, axigluons, and charge asymmetries at hadron colliders. Physical Review D, 2008, 77, .	4.7	142
10	Boosted objects and jet substructure at the LHC. Report of BOOST2012, held at IFIC Valencia, 23rd-27th of July 2012. European Physical Journal C, 2014, 74, 1.	3.9	124
11	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
12	From loops to trees by-passing Feynman's theorem. Journal of High Energy Physics, 2008, 2008, 065-065.	4.7	99
13	Do the Quark Masses Run? Extracting $m_b(m_Z)$ from CERN LEP Data. Physical Review Letters, 1997, 79, 193-196.	7.8	90
14	To d , or not to d : recent developments and comparisons of regularization schemes. European Physical Journal C, 2017, 77, 471.	3.9	88
15	Space-like (vs. time-like) collinear limits in QCD: is factorization violated?. Journal of High Energy Physics, 2012, 2012, 1.	4.7	87
16	Radiative return at Φ - and B-factories: FSR for muon pair production at next-to-leading order. European Physical Journal C, 2005, 39, 411.	3.9	83
17	The radiative return at Φ - and B-factories: small-angle photon emission at next-to-leading order. European Physical Journal C, 2003, 27, 563-575.	3.9	80
18	Constraining heavy colored resonances from top-antitop quark events. Physical Review D, 2009, 80, .	4.7	80

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19	Perturbative Generation of a Strange-Quark Asymmetry in the Nucleon. Physical Review Letters, 2004, 93, 152003.	7.8	79
20	A tree-loop duality relation at two loops and beyond. Journal of High Energy Physics, 2010, 2010, 1.	4.7	73
21	Massive color-octet bosons and the charge asymmetries of top quarks at hadron colliders. Physical Review D, 2008, 78, .	4.7	70
22	$\hat{\Gamma}_s(m_Z)$ from $\hat{\Gamma}_b$ decays with matching conditions at three loops. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 424, 367-374.	4.1	65
23	The radiative return at Φ - and B-factories: FSR at next-to-leading order. European Physical Journal C, 2004, 33, 333-347.	3.9	64
24	QCD matching conditions at thresholds. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 441-446.	4.1	63
25	The triple collinear limit of one-loop QCD amplitudes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 586, 323-331.	4.1	54
26	QED corrections to the Altarelli-Parisi splitting functions. European Physical Journal C, 2016, 76, 1.	3.9	53
27	Towards gauge theories in four dimensions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	52
28	Nucleon form factors, B-meson factories and the radiative return. European Physical Journal C, 2004, 35, 527-536.	3.9	48
29	Four-dimensional unsubtraction with massive particles. Journal of High Energy Physics, 2016, 2016, 1.	4.7	48
30	Tree-loop duality relation beyond single poles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	45
31	NLO QED corrections to ISR in $e^+ e^-$ annihilation and the measurement of $\sigma(e^+ e^- \rightarrow \text{ETQq1 1 0.784314 rgBT / Overlock 1$	3.9	44
32	Four-dimensional unsubtraction from the loop-tree duality. Journal of High Energy Physics, 2016, 2016, 1.	4.7	44
33	Proton stability, dark matter, and light color octet scalars in adjointSU(5)unification. Physical Review D, 2008, 78, .	4.7	42
34	On the singular behaviour of scattering amplitudes in quantum field theory. Journal of High Energy Physics, 2014, 2014, 1.	4.7	41
35	May the four be with you: novel IR-subtraction methods to tackle NNLO calculations. European Physical Journal C, 2021, 81, 1.	3.9	40
36	Fermion masses and the UV cutoff of the minimal realisticSU(5)model. Physical Review D, 2007, 75, .	4.7	39

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37	Numerical implementation of the loop-tree duality method. European Physical Journal C, 2017, 77, 1.	3.9	39
38	The radiative return at small angles: virtual corrections. European Physical Journal C, 2002, 25, 215-222.	3.9	38
39	Compact Multigluonic Scattering Amplitudes with Heavy Scalars and Fermions. Physical Review Letters, 2006, 96, 182001.	7.8	35
40	Heavy colored resonances in $t\bar{t} + \text{jet}$ at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	4.7	34
41	Open Loop Amplitudes and Causality to All Orders and Powers from the Loop-Tree Duality. Physical Review Letters, 2020, 124, 211602.	7.8	34
42	Three-jet production at LEP and the bottom quark mass. Nuclear Physics B, 1995, 439, 505-535.	2.5	30
43	Quark-mass effects for jet production in e^+e^- collisions at the next-to-leading order: results and applications. Nuclear Physics B, 1999, 554, 257-297.	2.5	30
44	Two-loop QED corrections to the Altarelli-Parisi splitting functions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	30
45	Standard model radiative corrections in the pion form factor measurements do not explain the $\pi^0 \rightarrow \gamma^* \rightarrow \pi^0 \gamma$ anomaly. Physical Review D, 2019, 100, .	4.7	30
46	Electron-positron annihilation into three pions and the radiative return. European Physical Journal C, 2006, 47, 617.	3.9	29
47	Universal four-dimensional representation of $H \rightarrow \gamma \gamma$ at two loops through the Loop-Tree Duality. Journal of High Energy Physics, 2019, 2019, 1.	4.7	29
48	Multigluonic scattering amplitudes of heavy quarks. Journal of High Energy Physics, 2005, 2005, 079-079.	4.7	28
49	Causality, unitarity thresholds, anomalous thresholds and infrared singularities from the loop-tree duality at higher orders. Journal of High Energy Physics, 2019, 2019, 1.	4.7	26
50	Heavy quark impact factor at next-to-leading level. Journal of High Energy Physics, 2000, 2000, 042-042.	4.7	24
51	Universal dual amplitudes and asymptotic expansions for $H \rightarrow g g$ and $H \rightarrow \gamma \gamma$. European Physical Journal C, 2018, 78, 1.	3.9	24
52	Double collinear splitting amplitudes at next-to-leading order. Journal of High Energy Physics, 2014, 2014, 1.	4.7	23
53	Single bottom quark production in k -factorisation. Journal of High Energy Physics, 2015, 2015, 1.	4.7	22
54	Mathematical properties of nested residues and their application to multi-loop scattering amplitudes. Journal of High Energy Physics, 2021, 2021, 1.	4.7	20

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55	Quark mass effects in QCD jets. Nuclear Physics, Section B, Proceedings Supplements, 1997, 54, 60-64.	0.4	19
56	Resummed jet rates for e^+e^- annihilation into massive quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 576, 135-142.	4.1	18
57	Triple collinear splitting functions at NLO for scattering processes with photons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	18
58	Complete QED NLO contributions to the reaction $e^+e^- \rightarrow e^+e^- \gamma^* \gamma^* \rightarrow e^+e^- \gamma^* \gamma^* \gamma^*$ and their implementation in the event generator PHOKHARA. Journal of High Energy Physics, 2014, 2014, 1.	4.7	18
59	Causal representation of multi-loop Feynman integrands within the loop-tree duality. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
60	From multileg loops to trees (by-passing Feynman's Tree Theorem). Nuclear Physics, Section B, Proceedings Supplements, 2008, 183, 262-267.	0.4	17
61	From Jacobi off-shell currents to integral relations. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
62	A Stroll through the Loop-Tree Duality. Symmetry, 2021, 13, 1029.	2.2	14
63	On unification and nucleon decay in supersymmetric grand unified theories based on. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 197-205.	4.1	13
64	Universal opening of four-loop scattering amplitudes to trees. Journal of High Energy Physics, 2021, 2021, 1.	4.7	13
65	Dimensionally regularized box and phase-space integrals involving gluons and massive quarks. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, 1593-1606.	3.6	11
66	Charge asymmetries of top quarks: A window to new physics at hadron colliders. Journal of Physics: Conference Series, 2009, 171, 012091.	0.4	11
67	Oriented event shapes at N ³ LL + $\mathcal{O}(\alpha_s^2)$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	11
68	Polarized triple-collinear splitting functions at NLO for processes with photons. Journal of High Energy Physics, 2015, 2015, 1.	4.7	11
69	A simple coloured indicator for monitoring ultra high pressure processing conditions. Journal of Food Engineering, 2009, 92, 410-415.	5.2	10
70	Asymptotic expansions through the loop-tree duality. European Physical Journal C, 2021, 81, 1.	3.9	10
71	Towards a Numerical Implementation of the Loop-Tree Duality Method. Nuclear and Particle Physics Proceedings, 2015, 258-259, 33-36.	0.5	8
72	$m_b(m_Z)$ from jet production at the Z peak in the Cambridge algorithm. Physical Review D, 1999, 60, .	4.7	7

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73	Resummed jet rates for heavy quark production in e^+e^- annihilation. European Physical Journal C, 2004, 33, s457-s459.	3.9	7
74	News on the Loop-tree Duality. Acta Physica Polonica B, 2013, 44, 2207.	0.8	7
75	Quantum algorithm for Feynman loop integrals. Journal of High Energy Physics, 2022, 2022, .	4.7	7
76	Gauge mediated supersymmetry breaking via seesaw mechanisms. Physical Review D, 2010, 81, .	4.7	5
77	Interplay between the loop-tree duality and helicity amplitudes. Physical Review D, 2022, 105, .	4.7	5
78	m_b at m_b : The Running Bottom Quark Mass and the Higgs Boson. Physical Review Letters, 2022, 128, 122001.	7.8	5
79	Precision measurement of the hadronic cross-section through the radiative return method. Nuclear Physics, Section B, Proceedings Supplements, 2003, 123, 167-176.	0.4	3
80	Collinear splitting, parton evolution and the strange-quark asymmetry of the nucleon in NNLO QCD. Nuclear Physics, Section B, Proceedings Supplements, 2004, 135, 188-192.	0.4	3
81	Perspectives for the radiative return at meson factories. Nuclear Physics, Section B, Proceedings Supplements, 2004, 131, 39-47.	0.4	3
82	Heavy quark impact factor in k_T -factorization. Journal of High Energy Physics, 2013, 2013, 1.	4.7	3
83	Applications of the loop-tree duality. , 2016, , .		3
84	Heavy quark mass effects in $e^+e^- \rightarrow$ into three jets. Nuclear Physics, Section B, Proceedings Supplements, 1999, 74, 53-56.	0.4	2
85	QCD factorization with heavy quarks. Nuclear Physics, Section B, Proceedings Supplements, 2001, 99, 200-203.	0.4	2
86	PHOKHARA, the radiative return and the puzzle. Nuclear Physics, Section B, Proceedings Supplements, 2007, 169, 271-276.	0.4	2
87	Attacking one-loop multi-leg Feynman integrals with the Loop-Tree Duality. , 2016, , .		2
88	Mixed QCD-QED corrections to DGLAP equations. , 2017, , .		2
89	The Loop-Tree Duality: Progress Report. , 2017, , .		1
90	The running of the b-quark mass from LEP data. Nuclear Physics, Section B, Proceedings Supplements, 1998, 64, 380-386.	0.4	0

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91	Radiative return at e^+e^- factories. Nuclear Physics, Section B, Proceedings Supplements, 2003, 116, 249-253.	0.4	0
92	NLO cross sections in 4 dimensions without DREG. Journal of Physics: Conference Series, 2016, 761, 012021.	0.4	0
93	The loop-tree duality at NLO and beyond. Nuclear and Particle Physics Proceedings, 2016, 273-275, 2009-2014.	0.5	0
94	Heavy quark impact factor at NLO. Nuclear and Particle Physics Proceedings, 2016, 273-275, 2743-2745.	0.5	0
95	QED and QCD self-energy corrections through the loop-tree duality. Journal of Physics: Conference Series, 2017, 912, 012013.	0.4	0
96	PERTURBATIVE GENERATION OF A STRANGE-QUARK ASYMMETRY IN THE NUCLEON. , 2005, , .		0
97	Axigluon signatures at hadron colliders. , 2008, , .		0
98	Charge asymmetry of top quarks. , 2010, , .		0
99	Feynman's Tree Theorem and loop-tree dualities. , 2010, , .		0
100	Tevatron anomalies and LHC cross-checks. , 2012, , .		0
101	Recursive relations for multiparton splitting functions. , 2013, , .		0
102	Factorization violation in the collinear limit. , 2013, , .		0
103	Heavy quark impact factor and the single bottom production at the LHC. , 2013, , .		0
104	Heavy quark impact factor and the single bottom production at the LHC. , 2014, , .		0
105	The loop-tree duality at work. , 2014, , .		0
106	Heavy quark impact factor. , 2014, , .		0
107	Higher-order QCD corrections to triple collinear splitting functions. , 2016, , .		0
108	New Developments with the Loop-tree Duality. Acta Physica Polonica B, 2017, 48, 2305.	0.8	0

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109	Towards regularized higher-order computations in QFT without DREG. , 2017, , .		0
110	Four-dimensional regularization of higher-order computations: FDU approach. , 2017, , .		0
111	On the universal structure of Higgs amplitudes mediated by heavy particles. , 2018, , .		0
112	Recent developments from the loop-tree duality. , 2018, , .		0
113	Loop-tree duality at two loops. , 2018, , .		0