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Higgs boson potential at colliders: Status and perspectives

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#	Paper	IF	Citations
46	Forward Higgs production within high energy factorization in the heavy quark limit at next-to-leading order accuracy. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	5
45	Reconstruction and identification of H \rightarrow WW* with high transverse momentum in the full hadronic final state. <i>Physical Review D</i> , 2021 , 103,	4.9	0
44	gg \rightarrow HH: Combined uncertainties. <i>Physical Review D</i> , 2021 , 103,	4.9	6
43	Next-to-leading power threshold corrections for finite order and resummed colour-singlet cross sections. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	4
42	One-loop radiative corrections to e \rightarrow e γ h \rightarrow H/A \rightarrow in the Inert Higgs Doublet Model. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
41	Triple Higgs boson production at the Large Hadron Collider with Two Real Singlet scalars. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
40	Renormalization of the C2HDM with FeynMaster 2. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
39	TopBottom Condensation Model: Symmetries and Spectrum of the Induced 2HDM. <i>Symmetry</i> , 2021 , 13, 1130	2.7	0
38	Multi-Higgs boson production probes Higgs sector flavor. <i>Physical Review D</i> , 2021 , 103,	4.9	2
37	Global electroweak symmetric vacuum. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
36	The Higgs boson implications and prospects for future discoveries. <i>Nature Reviews Physics</i> , 2021 , 3, 608-626	6.4	3
35	Probing the triple Higgs boson coupling with machine learning at the LHC. <i>Physical Review D</i> , 2021 , 104,	4.9	2
34	Anomalous couplings in Higgs-boson pair production at approximate NNLO QCD. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
33	Obscure Higgs boson at colliders. <i>Physical Review D</i> , 2021 , 103,	4.9	11
32	Prospects of non-resonant di-Higgs searches and Higgs boson self-coupling measurement at the HE-LHC using machine learning techniques. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3
31	A new perspective on the electroweak phase transition in the Standard Model Effective Field Theory. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	
30	Measuring Higgs boson self-couplings with 2 \rightarrow 3 VBS processes. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0

29	Top-pair production via gluon fusion in the Standard Model effective field theory. <i>Physical Review D</i> , 2021 , 104,	4.9	
28	Naturalness implications within the two-real-scalar-singlet beyond the SM. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	○
27	Higgs, top quark, and electroweak precision measurements at future e+e- colliders: A combined effective field theory analysis with renormalization mixing. <i>Physical Review D</i> , 2022 , 105,	4.9	1
26	FCC-ee overview: new opportunities create new challenges. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	1
25	Searches for Resonant Scalar Boson Pair Production Using Run 2 LHC Proton-Proton Collision Data. <i>Symmetry</i> , 2022 , 14, 260	2.7	1
24	Off-shell Higgs production at the LHC as a probe of the trilinear Higgs coupling. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	○
23	A special Higgs challenge: measuring the mass and production cross section with ultimate precision at FCC-ee. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	3
22	Measurement of Higgs boson self-couplings through 2- γ vector bosons scattering in future muon colliders. <i>Physical Review D</i> , 2022 , 105,	4.9	○
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18	Triple Higgs couplings in the 2HDM: the complete picture. <i>European Physical Journal C</i> , 2022 , 82,	4.2	○
17	Shedding light on the electroweak phase transition from exotic Higgs boson decays at the lifetime frontiers. <i>Physical Review D</i> , 2022 , 105,	4.9	
16	Pair production of neutral Higgs particles in the B-LSSM. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2022 , 49, 085002	2.9	
15	Next-to-leading order corrections to decays of the heavier CP-even Higgs boson in the two Higgs doublet model. <i>Nuclear Physics B</i> , 2022 , 115906	2.8	○
14	Searching for Pairs of Higgs Bosons in the LHC Run 2 Dataset. <i>Symmetry</i> , 2022 , 14, 1467	2.7	
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- 11 NNLO study of top-quark mass renormalization scheme uncertainties in Higgs boson production. **2022**, 2022, ○
- 10 New gauge boson Z' and the rare decay $H \rightarrow \mu\mu$ in the minimal $U(1)_{L\mu\tau}$ model. ○
- 9 Distinguishing electroweak EFTs with WLWL-nB. **2022**, 106, ○
- 8 Search for Higgs boson pair production in the two bottom quarks plus two photons final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. **2022**, 106, ○
- 7 Top-Yukawa-induced corrections to Higgs pair production. **2022**, 2022, ○
- 6 Machine learning the trilinear and light-quark Yukawa couplings from Higgs pair kinematic shapes. **2022**, 2022, ○
- 5 New Constraints on Extended Higgs Sectors from the Trilinear Higgs Coupling. **2022**, 129, ○
- 4 System design and prototyping for the CMS Level-1 Trigger at the High-Luminosity LHC. **2023**, 18, C01021 ○
- 3 Investigating Higgs self-interaction through di-Higgs plus jet production at a 100 TeV hadron collider. **2023**, 107, ○
- 2 The trilinear Higgs self-couplings at $\mathcal{O}(\alpha_t^2)$ in the CP-violating NMSSM. **2023**, 83, ○
- 1 N3LO+N3LL QCD improved Higgs pair cross sections. **2023**, 2023, ○