RESEARCH & PUBLICATIONS

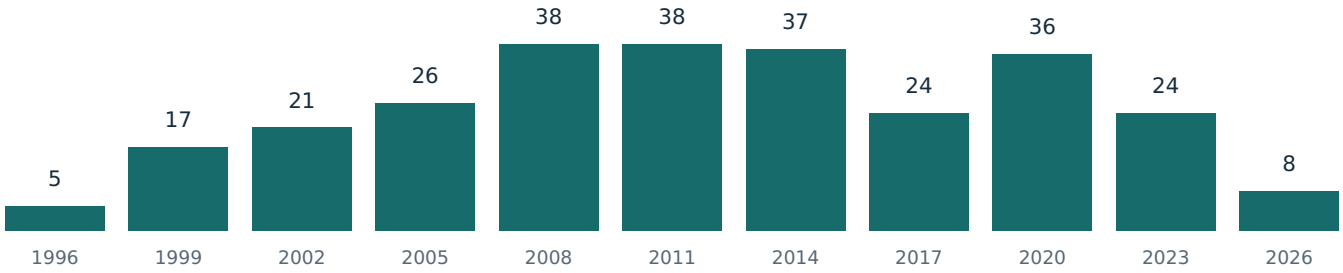
Sven Heinemeyer

A publication record at a glance

275	26,746	70
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



1 articles have no publication year in the database.

MOST CITED IN THIS LIST

Review of Particle Physics — 6,751
2018 Physical Review D

FeynHiggs: A Program for the Calculation of the Masses of the Neutral CP-Even Higgs Bosons in the MSSM — 878
2000 Computer Physics Communications

Towards High-Precision Predictions for the MSSM Higgs Sector — 761
2003 European Physical Journal C

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Ordered by publication year, newest first

2026

01 **Assessing Uncertainties in the Determination of the Trilinear Higgs Self-Coupling From Single-Higgs Observables**
1 citations
Journal unavailable · 485, 384
https://exaly.com/article/209304780

02 **Large One-Loop Effects of BSM Triple Higgs Couplings on Double Higgs Production at e+e− Colliders**
5 citations
Journal of High Energy Physics · 2026, 160
https://exaly.com/article/209822523

03 **Interpretation of LHC Excesses at 95 GeV and 152 GeV in an Extended Georgi-Machacek Model**
2 citations
Physical Review D · 113, 075027
https://exaly.com/article/211345064

04 **Light Neutral Higgs-Boson Production at e^+e^- Colliders in the Complex MSSM and NMSSM: A Full One-Loop Analysis**
0 citations
European Physical Journal C
https://exaly.com/article/213271946

05 **Complementarity of Gravitational Wave Analyses and Di-Higgs Production in the Exploration of the Electroweak Phase Transition Dynamics in the RxSM**
7 citations
Journal of High Energy Physics
https://exaly.com/article/214898496

06 **Consistent Excesses in the LHC Electroweak SUSY Searches: GUT-Based Singlino/Higgsino Interpretation in the NMSSM**
0 citations
European Physical Journal C · 86, 723
https://exaly.com/article/215424302

07 **Experimental Determination of BSM Triple Higgs Couplings at the HL-LHC With Neural Networks**
0 citations
Journal of High Energy Physics
https://exaly.com/article/215461346

08 **Investigating a Strong First-Order Electroweak Phase Transition in the RxSM at Future Linear e^+e^- Colliders and LISA**
0 citations
European Physical Journal Plus · 141, 764
https://exaly.com/article/215677596

Ordered by publication year, newest first

2025

09 **Higgs Pair Production in the 2HDM: Impact of Loop Corrections to the Trilinear Higgs Couplings and Interference Effects on Experimental Limits** — 13 citations

European Physical Journal C · 85, 1-16

https://exaly.com/article/199755372

10 **Toward a Refined Understanding of Nonholomorphic Soft SUSY-Breaking Effects on the Higgs Boson Mass Spectra** — 4 citations

Physical Review D · 111, 115027

https://exaly.com/article/201729134

11 **Lepton Flavor Violation in Nonholomorphic Soft SUSY-Breaking Scenarios: Experimental Limits and Excesses** — 5 citations

European Physical Journal C · 85, 638

https://exaly.com/article/201787868

12 **Sensitivity to Triple Higgs Couplings via Di-Higgs Production in the RxSM at the (HL-)LHC and Future e+e− Colliders** — 8 citations

Journal of High Energy Physics · 2025, 211

https://exaly.com/article/202165849

13 **Impact of One-Loop Corrections to Trilinear Scalar Couplings on Di-Higgs Production in the RxSM** — 9 citations

European Physical Journal C · 85, 1153

https://exaly.com/article/205773160

2024

14 **Distinguishing Axion-Like Particles and 2HDM Higgs Bosons in t T̄ Production at the LHC** — 1 citations

Journal unavailable · 449, 474

https://exaly.com/article/175211928

15 **Probes of CP-Violating Higgs Couplings and Their Impact on Baryogenesis** — 0 citations

Journal unavailable · 450, 184

https://exaly.com/article/175317213

16 **First Shot of the Smoking Gun: Probing the Electroweak Phase Transition in the 2HDM With Novel Searches for a → ZH in $(\ell)^+(\ell)^-$Tt̄ and ν ν Bb̄ Final States** — 23 citations

Journal of High Energy Physics · 2024, 1-44

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17 **95.4 GeV Diphoton Excess at ATLAS and CMS** — 54 citations

Physical Review D · 109, 035005

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Ordered by publication year, newest first

2024 / continued

18 Higgs Pair Production and Triple Higgs Couplings at the LHC in the 2HDM Framework
Journal unavailable · 449, 411
https://exaly.com/article/176232760
2 citations

19 (g-2)_μ And Stau Coannihilation: Dark Matter and Collider Analysis
European Physical Journal C · 84, 1-21
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9 citations

20 95 GeV Higgs Boson in the Georgi-Machacek Model
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32 citations

21 Consistent Excesses in the Search for \varvec{\tilde{\chi }_{2}^0\tilde{\chi }_{1}^\pm :} Wino/Bino vs. Higgsino Dark Matter
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15 citations

22 Higgs Pair Production in the 2HDM: Impact of Loop Corrections to the Trilinear Higgs Couplings
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1 citations

23 Physics Case for an e+e− Collider at 500 GeV and Above
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2 citations

24 ALP-Ine Quests at the LHC: Hunting Axion-Like Particles via Peaks and Dips in $t\bar{t}$ Production
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11 citations

2023

25 The Trap in the Early Universe: Impact on the Interplay Between Gravitational Waves and LHC Physics in the 2HDM
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https://exaly.com/article/161502976
47 citations

26 Nonholomorphic Soft-Term Contributions to the Higgs-Boson Masses in the Feynman Diagrammatic Approach
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8 citations

Ordered by publication year, newest first

2023 / continued

27 HiggsTools: BSM Scalar Phenomenology With New Versions of HiggsBounds and HiggsSignals — 174 citations
Computer Physics Communications · 291, 108803
https://exaly.com/article/163443204

28 Excesses in the Low-Mass Higgs-Boson Search and the \varvec{W} -Boson Mass Measurement — 44 citations
European Physical Journal C · 83, 1-13
https://exaly.com/article/163478150

29 Automated Choice for the Best Renormalization Scheme in BSM Models — 3 citations
European Physical Journal C · 83, 1-29
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30 The CMS Di-Photon Excess at 95 GeV in View of the LHC Run 2 Results — 59 citations
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics · 846, 138217
https://exaly.com/article/170289588

31 Sensitivity to Triple Higgs Couplings via Di-Higgs Production in the 2HDM at the (HL-)LHC — 17 citations
European Physical Journal C · 83, 1-31
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32 Role of λ_(hH⁺H^(−)) in Higgs Boson Decays h to Bs in the 2HDM — 2 citations
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https://exaly.com/article/173026399

2022

33 SUSY in the Light of the New “MUON G-2” Result — 2 citations
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34 Possible Indications for New Higgs Bosons in the Reach of the LHC: N2HDM And NMSSM Interpretations — 66 citations
European Physical Journal C · 82, 1-41
https://exaly.com/article/134452726

35 New Results in Models With Reduced Couplings — 0 citations
International Journal of Modern Physics A
https://exaly.com/article/134776804

36 Large Triple Higgs Couplings in the 2HDM at e^+e^- Colliders — 1 citations
Journal unavailable · 398, 609
https://exaly.com/article/134888341

Ordered by publication year, newest first

2022 / continued

37 Vacuum (Meta-)Stability in the μ ν SSM
6 citations
European Physical Journal C · 82, 1-23
https://exaly.com/article/135016329

38 Interdependence of the New “MUON G-2” Result and the W-Boson Mass
23 citations
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39 (G-2)_μ And SUSY Dark Matter: Direct Detection and Collider Search Complementarity
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41 Constraining the CP Structure of Higgs-Fermion Couplings With a Global LHC Fit, the Electron EDM and Baryogenesis
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42 A Grand Scan of the pMSSM Parameter Space for Snowmass 2021
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44 Dark Matter in Supersymmetry
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45 SUSY Dark Matter Direct Detection Prospects Based on ((g-2))_(μ)
3 citations
Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika) · 77, 116-119
https://exaly.com/article/154621675

46 (G−2)μ And SUSY∗
4 citations
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2022 / continued

47 **Phenomenology of a 96 GeV Higgs Boson in the 2HDM With an Additional Singlet**
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https://exaly.com/article/155194332
70 citations

48 **Sensitivity and Constraints to the 2HDM Soft-Breaking Z2 Parameter m12**
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2021

49 **Probing Unified Theories With Reduced Couplings at Future Hadron Colliders**
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6 citations

50 **HiggsSignals-2: Probing New Physics With Precision Higgs Measurements in the LHC 13 TeV Era**
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https://exaly.com/article/79021846
249 citations

51 **Higgs-Mass Predictions in the MSSM and Beyond**
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52 **Fate of Electroweak Symmetry in the Early Universe: Non-Restoration and Trapped Vacua in the N2HDM**
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53 **The “96 GeV Excess” at the LHC**
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54 **Theory Requirements for SM Higgs and EW Precision Physics at the FCC-Ee**
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https://exaly.com/article/82096819
16 citations

55 **The New (g-2)_μ Result and the μ ν SSM**
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https://exaly.com/article/82248023
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56 **Sensitivity to Triple Higgs Couplings via Di-Higgs Production in the 2HDM at e^+e^- Colliders**
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10 citations

Ordered by publication year, newest first

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57 Improved (g-2)_μ Measurements and Wino/Higgsino Dark Matter
34 citations
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https://exaly.com/article/125730455

58 The New “MUON G-2” Result and Supersymmetry
62 citations
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2020

59 Exploring Sizable Triple Higgs Couplings in the 2HDM
33 citations
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https://exaly.com/article/75488713

60 HL-LHC and ILC Sensitivities in the Hunt for Heavy Higgs Bosons
24 citations
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https://exaly.com/article/76506050

61 Improved (g-2)_μ Measurements and Supersymmetry
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62 Updates and New Results in Models With Reduced Couplings
6 citations
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63 Precision Calculations in the MSSM Higgs-Boson Sector With FeynHiggs 2.14
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https://exaly.com/article/77349299

64 Indirect CP Probes of the Higgs-Top-Quark Interaction: Current LHC Constraints and Future Opportunities
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Journal of High Energy Physics · 2020, 1-55
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65 A 96 GeV Higgs Boson in the N2HDM
94 citations
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66 HiggsBounds-5: Testing Higgs Sectors in the LHC 13 TeV Era
272 citations
European Physical Journal C · 80, 1-24
https://exaly.com/article/86084868

Ordered by publication year, newest first

2020 / continued

67 Theoretical Uncertainties in the MSSM Higgs Boson Mass Calculation
47 citations
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68 Reinterpretation of LHC Results for New Physics: Status and Recommendations After Run 2
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2019

69 MSSM Higgs Boson Searches at the LHC: Benchmark Scenarios for Run 2 and Beyond
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70 Supersymmetric Models in Light of Improved Higgs Mass Calculations
26 citations
European Physical Journal C · 79, 1-26
https://exaly.com/article/72604867

71 Precise Prediction for the Higgs-Boson Masses in the \varvec{\mu }\varvec{\nu } SSM With Three Right-Handed Neutrino Superfields
43 citations
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https://exaly.com/article/72604940

72 Reduction of Couplings and Its Application in Particle Physics
29 citations
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73 Global Analysis of Dark Matter Simplified Models With Leptophobic Spin-One Mediators Using MasterCode
19 citations
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https://exaly.com/article/86084805

74 Reduction of Couplings: Finite Unified Theories and the Reduced MSSM
0 citations
Journal unavailable · 347, 077
https://exaly.com/article/116528157

2018

75 Reduction of Parameters in Finite Unified Theories and the MSSM
6 citations
Nuclear Physics B · 927, 319-338
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Ordered by publication year, newest first

2018 / continued

76 Reconciling EFT and Hybrid Calculations of the Light MSSM Higgs-Boson Mass
118 citations
European Physical Journal C · 78, 1-21
https://exaly.com/article/69248748

77 A Higgs Boson Below 125 GeV?!
16 citations
International Journal of Modern Physics A · 33, 1844006
https://exaly.com/article/69811082

78 Decays of the Neutral Higgs Bosons Into SM Fermions and Gauge Bosons in the CP CP -Violating NMSSM
59 citations
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https://exaly.com/article/69880352

79 Reduction of the Parameters in MSSM
9 citations
Journal of High Energy Physics · 2018, 1-29
https://exaly.com/article/70775756

80 Precise Prediction for the Higgs-Boson Masses in the μ ν μ ν SSM
70 citations
European Physical Journal C · 78, 1-33
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81 Slepton Production at e^+e^- e + e - Colliders in the Complex MSSM: A Full One-Loop Analysis
8 citations
European Physical Journal C · 78, 1-29
https://exaly.com/article/70933870

82 The LHC Higgs Boson Discovery: Updated Implications for Finite Unified Theories and the SUSY Breaking Scale
6 citations
Symmetry · 10, 62
https://exaly.com/article/71431160

83 Likelihood Analysis of the Sub-GUT MSSM in Light of LHC 13-TeV Data
32 citations
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84 Likelihood Analysis of the pMSSM11 in Light of LHC 13-TeV Data
111 citations
European Physical Journal C · 78, 1-38
https://exaly.com/article/71500532

85 Review of Particle Physics
6,751 citations
Physical Review D
https://exaly.com/article/71575984

Ordered by publication year, newest first

2017

86 Likelihood Analysis of Supersymmetric SU(5) GUTs — 22 citations
European Physical Journal C · 77, 1-29
https://exaly.com/article/66329218

87 The Light and Heavy Higgs Interpretation of the MSSM — 64 citations
European Physical Journal C · 77, 1-44
https://exaly.com/article/67588122

88 Precise Predictions for the Higgs-Boson Masses in the NMSSM — 27 citations
European Physical Journal C · 77, 1-22
https://exaly.com/article/67588131

89 Likelihood Analysis of the Minimal AMSB Model — 28 citations
European Physical Journal C · 77, 1-28
https://exaly.com/article/67588238

90 Higgs-Boson Masses and Mixing Matrices in the NMSSM: Analysis of On-Shell Calculations — 31 citations
European Physical Journal C · 77, 1-23
https://exaly.com/article/67588331

91 Chargino and Neutralino Production at e^+e^- e + e - Colliders in the Complex MSSM: A Full One-Loop Analysis — 11 citations
European Physical Journal C · 77, 1-33
https://exaly.com/article/67949512

92 The Impact of Two-Loop Effects on the Scenario of MSSM Higgs Alignment Without Decoupling — 23 citations
European Physical Journal C · 77, 1-20
https://exaly.com/article/68032578

2016

93 Quark Flavor Violating Higgs Boson Decay $h \to \bar{B}s + B\bar{s}$ in the MSSM — 4 citations
Physical Review D · 93, 095021
https://exaly.com/article/64626970

94 The 750 GeV Diphoton Excess and SUSY — 2 citations
International Journal of Modern Physics A · 31, 1630023
https://exaly.com/article/65118131

95 Neutral Higgs Boson Production at e^+e^- e + e - Colliders in the Complex MSSM: A Full One-Loop Analysis — 24 citations
European Physical Journal C · 76, 1-26
https://exaly.com/article/65208173

Ordered by publication year, newest first

2016 / continued

96 **The NMSSM Lives: With the 750 GeV Diphoton Excess** — 26 citations
European Physical Journal C · 76, 1-18
https://exaly.com/article/65208197

97 **High Precision Prediction for Mh in the MSSM** — 2 citations
Nuclear and Particle Physics Proceedings · 273, 794-800
https://exaly.com/article/65236149

98 **The 750 GeV Diphoton Excess and SUSY** — 1 citations
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99 **Precise Predictions for Higgs-Masses in the Next-to-Minimal Supersymmetric Standard Model (NMSSM)** — 4 citations
Journal unavailable · 234, 186
https://exaly.com/article/88309602

2015

100 **Renormalization of the Complex MSSM in FeynArts/FormCalc** — 2 citations
Nuclear and Particle Physics Proceedings · 267, 158-164
https://exaly.com/article/60127165

101 **Higgs Decays Into Charginos and Neutralinos in the Complex MSSM: A Full One-Loop Analysis** — 18 citations
European Physical Journal C · 75, 1-26
https://exaly.com/article/60522942

102 **Effects of Sfermion Mixing Induced by RGE Running in the Minimal Flavor Violating CMSSM** — 5 citations
European Physical Journal C · 75, 1-26
https://exaly.com/article/60522964

103 **Heavy Higgs Decays Into Sfermions in the Complex MSSM: A Full One-Loop Analysis** — 15 citations
European Physical Journal C · 75, 1-27
https://exaly.com/article/60555161

104 **The pMSSM10 After LHC Run 1** — 64 citations
European Physical Journal C · 75, 1-34
https://exaly.com/article/60616200

Ordered by publication year, newest first

2015 / continued

105 **Renormalization Scheme Dependence of the Two-Loop QCD Corrections to the Neutral Higgs-Boson Masses in the MSSM**
48 citations
European Physical Journal C · 75, 1-16
https://exaly.com/article/60616225

106 **Applying Exclusion Likelihoods From LHC Searches to Extended Higgs Sectors**
240 citations
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107 **Supersymmetric Dark Matter After LHC Run 1**
94 citations
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108 **Radiative Corrections to Mh From Three Generations of Majorana Neutrinos and Sneutrinos**
3 citations
Advances in High Energy Physics · 2015, 152394
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109 **Physics at the e^+ e^-e^+ e^- Linear Collider**
134 citations
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110 **Higgs/Electroweak in the SM and the MSSM**
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0 citations
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2014

112 **Finite Theories Predictions vs. the Discovery of a Higgs-Like Boson at the LHC**
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11 citations
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43 citations
European Physical Journal C · 74, 1-16
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115 Reduction of Couplings in a Finite GUT and the MSSM — 2 citations
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116 Higgs Masses and Electroweak Precision Observables in the Lepton-Flavor-Violating MSSM — 13 citations
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117 High-Precision Predictions for the Light CP-Even Higgs Boson Mass of the Minimal Supersymmetric Standard Model — 306 citations
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118 Updated Constraints on General Squark Flavor Mixing — 26 citations
Physical Review D · 90, 075003
https://exaly.com/article/58342822

119 Probing the Standard Model With Higgs Signal Rates From the Tevatron, the LHC and a Future ILC — 239 citations
Journal of High Energy Physics · 2014, 1-72
https://exaly.com/article/58443822

120 The Implementation of the Renormalized Complex MSSM in FeynArts and FormCalc — 48 citations
Computer Physics Communications · 185, 1529-1545
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121 HiggsSignals: Confronting Arbitrary Higgs Sectors With Measurements at the Tevatron and the LHC — 510 citations
European Physical Journal C · 74, 1-40
https://exaly.com/article/58832973

122 Momentum-Dependent Two-Loop QCD Corrections to the Neutral Higgs-Boson Masses in the MSSM — 63 citations
European Physical Journal C · 74, 1-15
https://exaly.com/article/59386057

123 HiggsBounds-4: Improved Tests of Extended Higgs Sectors Against Exclusion Bounds From LEP, the Tevatron and the LHC — 533 citations
European Physical Journal C · 74, 1-32
https://exaly.com/article/59520229

Ordered by publication year, newest first

2014 / continued

124 **Implications of Improved Higgs Mass Calculations for Supersymmetric Models**
65 citations
European Physical Journal C · 74, 1-14
https://exaly.com/article/59520271

125 **The CMSSM and NUHM1 After LHC Run 1**
92 citations
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2 citations
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0 citations
Journal unavailable · 211, 080
https://exaly.com/article/107055413

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0 citations
Journal unavailable · 211, 032
https://exaly.com/article/107086760

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2 citations
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https://exaly.com/article/107091265

2013

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11 citations
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https://exaly.com/article/54923818

131 **MSSM Higgs Boson Searches at the LHC: Benchmark Scenarios After the Discovery of a Higgs-Like Particle**
183 citations
European Physical Journal C · 73, 1-20
https://exaly.com/article/55203518

132 **MSSM Interpretations of the LHC Discovery: Light or Heavy Higgs?**
90 citations
European Physical Journal C · 73, 1-23
https://exaly.com/article/55220361

133 **Phenomenology Tools on Cloud Infrastructures Using OpenStack**
11 citations
European Physical Journal C · 73, 1-17
https://exaly.com/article/55220377

Ordered by publication year, newest first

2013 / continued

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https://exaly.com/article/55229506
52 citations

135 **Direct Chargino–Neutralino Production at the LHC: Interpreting the Exclusion Limits in the Complex MSSM**
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136 **Finite Theories After the Discovery of a Higgs-Like Boson at the LHC**
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14 citations

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138 **New Constraints on General Slepton Flavor Mixing**
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35 citations

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Fortschritte Der Physik · 61, 969-993
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12 citations

140 **Handbook of Vectorlike Quarks: Mixing and Single Production**
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141 **Recent Developments in HiggsBounds and a Preview of HiggsSignals**
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