RESEARCH & PUBLICATIONS

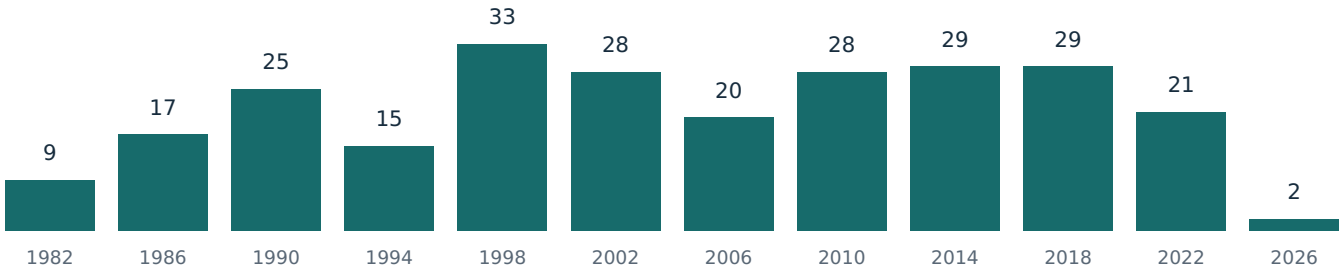
Antonio Pich

A publication record at a glance

256	19,389	66
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 4-year periods



MOST CITED IN THIS LIST

Review of Particle Physics — 4,212
2020 Progress of Theoretical and Experimental Physics

The Role of Resonances in Chiral Perturbation Theory — 1,306
1989 Nuclear Physics B

Chiral Lagrangians for Massive Spin-1 Fields — 764
1989 Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics

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Ordered by publication year, newest first

2026

01 **Searching for Heavy Resonances via Oblique Parameters in Non-Linear Effective Frameworks**
Journal unavailable · 485, 452
https://exaly.com/article/209507601
0 citations

02 **Flavour Universality of the W ± and Z Fermionic Couplings**
Journal unavailable
https://exaly.com/article/211627412
0 citations

2025

03 **Status of the Aligned Two Higgs Doublet Model in the Low Mass Region**
Journal unavailable · 476, 075
https://exaly.com/article/195771091
5 citations

04 **Analysis of Beyond the Standard Model Resonances With Effective Approaches and Oblique Parameters**
Journal unavailable · 476, 090
https://exaly.com/article/195797231
0 citations

05 **Model Independent Bounds on Left-Right Gauge Boson Masses From LHC Run 2 and Flavour Observables**
Journal unavailable · 476, 268
https://exaly.com/article/195998088
0 citations

06 **Bayesian Analyses of the Aligned-Two-Higgs-Doublet Model With Low-Mass Scalars**
Journal unavailable · 478, 238
https://exaly.com/article/196307745
3 citations

07 **Light Scalars Within the CP -Conserving Aligned-Two-Higgs-Doublet Model**
Journal of High Energy Physics · 2025, 1-53
https://exaly.com/article/197795732
18 citations

08 **Oblique Parameters at Next-to-Leading Order Within Electroweak Strongly-Coupled Scenarios: Constraining Heavy Resonances**
Physical Review D · 112, 035009
https://exaly.com/article/202914105
0 citations

09 **Workshop on Tau Lepton Physics: 30^(Th) Anniversary**
SciPost Physics Proceedings
https://exaly.com/article/203156844
0 citations

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2025 / continued

10 The Electric Dipole Moment of the Electron in the Decoupling Limit of the Aligned Two-Higgs Doublet Model

Journal of High Energy Physics · 2025, 53

https://exaly.com/article/206306661

10 citations

2024

11 Heavy Resonances and the Oblique Parameters S and T

Nuclear and Particle Physics Proceedings · 343, 130-134

https://exaly.com/article/172503615

2 citations

12 Aligned Two Higgs Doublet Model and the Global Fits

Journal unavailable · 449, 053

https://exaly.com/article/175582450

6 citations

13 Direct Bounds on Left-Right Gauge Boson Masses at LHC Run 2

Journal of High Energy Physics · 2024, 1-39

https://exaly.com/article/176106662

9 citations

14 Updated Global Fit of the Aligned Two-Higgs-Doublet Model With Heavy Scalars

Physical Review D · 109, 035012

https://exaly.com/article/176373320

22 citations

15 Tau Physics Opportunities at the Super Tau-Charm Facility

International Journal of Modern Physics A

https://exaly.com/article/187054686

3 citations

16 Final-State Interactions in the CP Asymmetry of D Meson Two-Body Decays

International Journal of Modern Physics A

https://exaly.com/article/187056880

3 citations

2023

17 Final-State Interactions in the CP Asymmetry of D Meson Two-Body Decays

Journal unavailable · 414, 748

https://exaly.com/article/157801352

1 citations

18 The Euclidean Adler Function and Its Interplay With Δ (α)_(QED)^(Had) and αs

Journal of High Energy Physics · 2023, 1-57

https://exaly.com/article/162411129

16 citations

19 Final-State Interactions in the CP Asymmetries of Charm-Meson Two-Body Decays

Physical Review D · 108, 036026

https://exaly.com/article/167377293

32 citations

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2023 / continued

20 **SM Prediction for the CP Asymmetries in Two-Body Hadronic Charm Meson Decays** — 0 citations
Journal unavailable · 445, 079
https://exaly.com/article/170708413

21 **Electroweak Mass Difference of Mesons** — 0 citations
Physical Review D · 108, 094044
https://exaly.com/article/174552271

2022

22 **Heavy States and Electroweak Effective Approaches** — 0 citations
Journal unavailable · 398, 425
https://exaly.com/article/125325871

23 **Violations of Quark-Hadron Duality in Low-Energy Determinations of αs** — 20 citations
Journal of High Energy Physics · 2022, 1-42
https://exaly.com/article/149502995

2021

24 **Precision Physics With Inclusive QCD Processes** — 30 citations
Progress in Particle and Nuclear Physics · 117, 103846
https://exaly.com/article/79549598

25 **Global Fits in the Aligned Two-Higgs-Doublet Model** — 42 citations
Journal of High Energy Physics · 2021, 1-37
https://exaly.com/article/80518516

26 **SU(3) Analysis of Four-Quark Operators: K → ππ and Vacuum Matrix Elements** — 15 citations
Journal of High Energy Physics · 2021, 1-43
https://exaly.com/article/80918574

27 **Electroweak Effective Theory and Beyond Standard Model Resonances** — 2 citations
Nuclear and Particle Physics Proceedings · 312, 196-200
https://exaly.com/article/81308937

28 **Constraints on Coloured Scalars From Global Fits** — 9 citations
Journal of High Energy Physics · 2021, 1-23
https://exaly.com/article/91232312

29 **Challenges for Tau Physics at the TeraZ** — 9 citations
European Physical Journal Plus · 136, 1-8
https://exaly.com/article/120733644

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2021 / continued

30 **Constraining Resonances by Using the Electroweak Effective Theory**
Journal unavailable · 390, 077
https://exaly.com/article/124627633
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2020

31 **Review of Particle Physics**
Progress of Theoretical and Experimental Physics
https://exaly.com/article/75994093
4,212 citations

32 **The Role of Right-Handed Neutrinos in b→ Cτ ν̄ Anomalies**
Journal of High Energy Physics · 2020, 1-46
https://exaly.com/article/76211094
59 citations

33 **Isospin-Breaking Contributions to ε '/ε**
Journal of Physics: Conference Series · 1526, 012010
https://exaly.com/article/76385794
1 citations

34 **Theoretical Status of ε '/ε**
Journal of Physics: Conference Series · 1526, 012011
https://exaly.com/article/76477088
10 citations

35 **Bottom-Up Approach Within the Electroweak Effective Theory: Constraining Heavy Resonances**
Physical Review D · 102, 035012
https://exaly.com/article/76560159
9 citations

36 **Isospin-Violating Contributions To ∈'/∈**
Journal of High Energy Physics · 2020, 1-44
https://exaly.com/article/76605948
33 citations

37 **The Belle II Physics Book**
Progress of Theoretical and Experimental Physics
https://exaly.com/article/77270517
278 citations

38 **Effective Field Theory With Nambu–Goldstone Modes**
Journal unavailable
https://exaly.com/article/85443950
20 citations

39 **Tau and Charm Decays**
Comptes Rendus Physique · 21, 75-92
https://exaly.com/article/90472420
2 citations

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2020 / continued

40 **Effective Theories and Resonances in Strongly-Coupled Electroweak Symmetry Breaking Scenarios**
Journal unavailable · 364, 643
https://exaly.com/article/117923134
0 citations

2019

41 **Colorful Imprints of Heavy States in the Electroweak Effective Theory**
Journal of High Energy Physics · 2019, 1-51
https://exaly.com/article/71976422
17 citations

42 **Global Fit to b → Cτν Transitions**
Journal of High Energy Physics · 2019, 1-45
https://exaly.com/article/72394871
121 citations

43 **LHC Bounds on Colored Scalars**
Physical Review D · 100, 115042
https://exaly.com/article/74207935
17 citations

44 **The Belle II Physics Book**
Progress of Theoretical and Experimental Physics
https://exaly.com/article/74455355
651 citations

45 **Constraints on Scalar Leptoquarks From Lepton and Kaon Physics**
Journal of High Energy Physics · 2019, 1-40
https://exaly.com/article/84171881
77 citations

46 **Tau-Decay Determination of the Strong Coupling**
SciPost Physics Proceedings
https://exaly.com/article/88096710
6 citations

47 **Flavour Anomalies**
Journal unavailable · 350, 078
https://exaly.com/article/88311182
8 citations

48 **Heavy Resonances and the Electroweak Effective Theory**
Journal unavailable · 340, 316
https://exaly.com/article/116516705
0 citations

2018

49 **Updated Standard Model Prediction for ε'/ε**
Nuclear and Particle Physics Proceedings · 300, 137-144
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7 citations

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2018 / continued

50 **Confronting Hadronic Tau Decays With Non-Leptonic Kaon Decays**
Nuclear and Particle Physics Proceedings · 300, 131-136
https://exaly.com/article/70103347
2 citations

51 **Direct CP Violation in $K^0 \to \pi\pi$: Standard Model Status**
Reports on Progress in Physics · 81, 076201
https://exaly.com/article/71185087
66 citations

52 **Traces of Resonances in Electroweak Effective Lagrangians**
Journal unavailable · 314, 334
https://exaly.com/article/88310770
2 citations

2017

53 **Scalar Contributions to $b \to c(u)\tau\nu$ Transitions**
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics · 771, 168-179
https://exaly.com/article/67180488
160 citations

54 **Fingerprints of Heavy Scales in Electroweak Effective Lagrangians**
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https://exaly.com/article/67445274
32 citations

55 **Flavour Alignment in Multi-Higgs-Doublet Models**
Journal of High Energy Physics · 2017, 1-34
https://exaly.com/article/68015004
46 citations

56 **Precision Physics With QCD**
EPJ Web of Conferences · 137, 01016
https://exaly.com/article/68370365
4 citations

57 **Integrating Out Resonances in Strongly-Coupled Electroweak Scenarios**
EPJ Web of Conferences · 137, 10006
https://exaly.com/article/68370381
0 citations

2016

58 **ChPT Parameters From τ-Decay Data**
Nuclear and Particle Physics Proceedings · 270, 108-112
https://exaly.com/article/63961708
0 citations

59 **Heavy Resonances in the Electroweak Effective Lagrangian**
Nuclear and Particle Physics Proceedings · 270, 237-241
https://exaly.com/article/63961711
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60 ICHEP 2014 Summary: Theory Status After the First LHC Run
3 citations
Nuclear and Particle Physics Proceedings · 273, 1-10
https://exaly.com/article/64319516

61 Updated Determination of Chiral Couplings and Vacuum Condensates From Hadronic τ Decay Data
33 citations
Physical Review D · 94, 014017
https://exaly.com/article/64553021

62 Determination of the QCD Coupling From ALEPH Decay Data
90 citations
Physical Review D
https://exaly.com/article/64553022

63 Low-Energy Signals of Strongly-Coupled Electroweak Symmetry-Breaking Scenarios
20 citations
Physical Review D
https://exaly.com/article/64626476

64 Bs,d0→ℓ+ℓ− Decays in Two-Higgs Doublet Models
1 citations
Nuclear and Particle Physics Proceedings · 273, 1411-1416
https://exaly.com/article/64676941

65 A Few Words About Resonances in the Electroweak Effective Lagrangian
2 citations
AIP Conference Proceedings · 1701, 080013
https://exaly.com/article/64835701

66 Updated Determination of αs(mτ2) From τ Decays
15 citations
Modern Physics Letters A · 31, 1630032
https://exaly.com/article/64954809

67 Status After the First LHC Run: Looking for New Directions in the Physics Landscape
2 citations
Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment · 824, 43-46
https://exaly.com/article/65747188

68 Electroweak Symmetry Breaking and the Higgs Boson
7 citations
Acta Physica Polonica B · 47, 151
https://exaly.com/article/90300755

69 Flavour-Changing Top Decays in the Aligned Two-Higgs-Doublet Model
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2015

70 **Flavour-Changing Top Decays in the Aligned Two-Higgs-Doublet Model**
Journal of High Energy Physics · 2015, 1-26
https://exaly.com/article/60180599
37 citations

71 **Leptons and QCD**
Nuclear and Particle Physics Proceedings · 260, 61-69
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1 citations

2014

72 **Theoretical Overview of Kaon Decays**
Journal of Physics: Conference Series · 556, 012045
https://exaly.com/article/57535415
3 citations

73 **Large-N_(c) Naturalness in Coupled-Channel Meson-Meson Scattering**
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https://exaly.com/article/57688081
37 citations

74 **The Physics of the B Factories**
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https://exaly.com/article/57691796
412 citations

75 **Low-Mass Fermiophobic Charged Higgs Phenomenology in Two-Higgs-Doublet Models**
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https://exaly.com/article/57740761
22 citations

76 **TAU2012 Summary**
Nuclear Physics, Section B, Proceedings Supplements · 253, 193-197
https://exaly.com/article/58350994
4 citations

77 **QCD and Strongly Coupled Gauge Theories: Challenges and Perspectives**
European Physical Journal C · 74, 1-241
https://exaly.com/article/58431458
490 citations

78 **Oblique S and T Constraints on Electroweak Strongly-Coupled Models With a Light Higgs**
Journal of High Energy Physics · 2014, 1-35
https://exaly.com/article/58862538
30 citations

79 **B_(S,D)^0 → ℓ + ℓ − Decays in the Aligned Two-Higgs-Doublet Model**
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36 citations

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2014 / continued

80 **Electric Dipole Moments in Two-Higgs-Doublet Models** — 153 citations
Journal of High Energy Physics · 2014, 1-42
https://exaly.com/article/59485252

81 **Precision Tau Physics** — 290 citations
Progress in Particle and Nuclear Physics · 75, 41-85
https://exaly.com/article/59625974

2013

82 **LHC Constraints on Two-Higgs Doublet Models** — 136 citations
Journal of High Energy Physics · 2013, 1-44
https://exaly.com/article/54763594

83 **Towards a General Analysis of LHC Data Within Two-Higgs-Doublet Models** — 76 citations
Journal of High Energy Physics · 2013, 1-32
https://exaly.com/article/55228957

84 **Sensitivity to Charged Scalars in B → D (*) τν τ and B → τν τ Decays** — 219 citations
Journal of High Energy Physics · 2013, 1-27
https://exaly.com/article/55455996

85 **B → D(*)τντ Decays in Two-Higgs-Doublet Models** — 16 citations
Journal of Physics: Conference Series · 447, 012058
https://exaly.com/article/56111863

86 **Viability of Strongly Coupled Scenarios With a Light Higgs-Like Boson** — 36 citations
Physical Review Letters · 110, 181801
https://exaly.com/article/56726670

87 **The Physics of the Higgs-Like Boson** — 5 citations
EPJ Web of Conferences · 60, 02006
https://exaly.com/article/57145728

88 **Strongly Coupled Models With a Higgs-Like Boson** — 8 citations
EPJ Web of Conferences · 60, 19009
https://exaly.com/article/57321738

89 **Review of Alpha_s Determinations** — 8 citations
Journal unavailable · 171, 022
https://exaly.com/article/100828072

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2012

90 QCD Exotics Versus a Standard Model Higgs Boson — 11 citations
Physical Review D · 86, 033001
https://exaly.com/article/52568996

91 One-Loop Calculation of the Oblique S Parameter in Higgsless Electroweak Models — 18 citations
Journal of High Energy Physics · 2012, 1-34
https://exaly.com/article/53204204

92 Exclusive Radiative B-Meson Decays Within the Aligned Two-Higgs-Doublet Model — 50 citations
Journal of High Energy Physics · 2012, 1-33
https://exaly.com/article/53204466

93 Kaon Decays in the Standard Model — 279 citations
Reviews of Modern Physics · 84, 399-447
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94 Low-Energy Constants From Resonance Chiral Theory — 5 citations
Journal unavailable · 77, 026
https://exaly.com/article/99732144

95 Kaon Physics: Theory Overview — 1 citations
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https://exaly.com/article/99993482

2011

96 $\bar{B}\to X_s\gamma$ Rate and CP Asymmetry Within the Aligned Two-Higgs-Doublet Model — 40 citations
Physical Review D · 83, 074011
https://exaly.com/article/49942117

97 Large-N_(C) Properties of the ρ and F₀(600) Mesons From Unitary Resonance Chiral Dynamics — 48 citations
Physical Review D · 84, 096002
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98 QCD Description of Hadronic Tau Decays — 16 citations
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99 The Vector Form Factor at the Next-to-Leading Order in 1/N C : Chiral Couplings L9(μ) and C88(μ) − C90(μ) — 33 citations
Journal of High Energy Physics · 2011, 1-23
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2010

100 **Charged-Higgs Phenomenology in the Aligned Two-Higgs-Doublet Model**
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138 citations

101 **Flavor Physics in the Quark Sector**
Physics Reports · 494, 197-414
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188 citations

102 **τ→Πππντ Decays and the a1(1260) Off-Shell Width Revisited**
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics · 685, 158-164
https://exaly.com/article/48296608
104 citations

103 **Duality Violation in QCD Sum Rules With the LR Correlator**
Nuclear Physics, Section B, Proceedings Supplements · 207, 285-289
https://exaly.com/article/48321354
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104 **Flavour Constraints on Multi-Higgs-Doublet Models: Yukawa Alignment**
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23 citations

105 **Violation of Quark-Hadron Duality and Spectral Chiral Moments in QCD**
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https://exaly.com/article/49401717
39 citations

106 **Pinched Weights and Duality Violation in QCD Sum Rules: A Critical Analysis**
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https://exaly.com/article/49437543
36 citations

107 **Hadron Structure in τ→KKπν_(τ) Decays**
Physical Review D · 81, 034031
https://exaly.com/article/49769984
66 citations

108 **Chiral Low-Energy Constants From Tau Data**
Journal unavailable · 86, 086
https://exaly.com/article/97438300
0 citations

109 **Quark-Hadron Duality Violation in QCD Sum Rules With Hadronic τ Data**
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https://exaly.com/article/97847343
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2009

110 **Chapter 29 Tau Decays**
International Journal of Modern Physics A · 24, 715-737
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2009 / continued

111 **Recent Progress on Tau Lepton Physics** — 2 citations
Nuclear Physics, Section B, Proceedings Supplements · 186, 187-192
https://exaly.com/article/46140172

112 **From Hadronic τ Decays to the Chiral Couplings L10r and C87r** — 1 citations
Nuclear Physics, Section B, Proceedings Supplements · 189, 90-95
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113 **Chiral Low-Energy Constants L10 and C87 From Hadronic τ Decays** — 3 citations
Nuclear Physics, Section B, Proceedings Supplements · 186, 171-174
https://exaly.com/article/46473979

114 **Reanalysis of Pion–Pion Phase Shifts From K→ππ Decays** — 13 citations
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics · 679, 445-448
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115 **Yukawa Alignment in the Two-Higgs-Doublet Model** — 314 citations
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116 **Tau Physics: Theory Overview** — 23 citations
Nuclear Physics, Section B, Proceedings Supplements · 181, 300-305
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117 **What Can Be Learned From the Belle Spectrum for the Decay τ−→ντKSπ−** — 60 citations
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118 **Determination of the Chiral Couplings L_{10} and C_{87} From Semileptonic τ Decays** — 45 citations
Physical Review D · 78, 116012
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119 **Form-Factors and Current Correlators: Chiral couplingsL10r(μ) and C87r(μ) at NLO in 1/NC** — 48 citations
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120 **Theoretical Progress on the Vus Determination From Tau Decays** — 8 citations
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https://exaly.com/article/95877274

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121 **Towards a Determination of the Chiral Couplings at NLO in 1/NC: L8r(μ) And C38r(μ)**
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40 citations

122 **Tau Physics 2006: Summary & Outlook**
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123 **|Vus| and Ms From Hadronic Tau Decays**
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125 **Scalar Kπ Form Factor and Light-Quark Masses**
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127 **Hadronic Decays of the Tau Lepton : τ− → (πππ)− ντ Within Resonance Chiral Theory**
AIP Conference Proceedings · 806, 11-17
https://exaly.com/article/39989483
1 citations

128 **Spectral Distribution for the Decay τ→ντKπ**
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics · 640, 176-181
https://exaly.com/article/40515069
75 citations

129 **Theoretical Overview on Tau Physics**
International Journal of Modern Physics A · 21, 5652-5659
https://exaly.com/article/41266501
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2005

130 **Extraction of Ms and |Vus| From Hadronic Tau Decays**
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131 **Vus Determination From Hyperon Semileptonic Decays**
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132 **V_{us} and M_s From Hadronic τ Decays**
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133 **Present Status of Chiral Perturbation Theory**
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https://exaly.com/article/38941609
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134 **The ⟨SPP⟩ Green Function and SU(3)Breaking in Kℓ3 Decays**
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135 **Order p 6 Chiral Couplings From the Scalar Kπ Form Factor**
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https://exaly.com/article/36419084
86 citations

136 **→?????? Decays in the Resonance Effective Theory**
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https://exaly.com/article/36451973
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137 **Resonance Effective Theory Approach to τ → 3πντ Decays**
AIP Conference Proceedings · 739, 660-662
https://exaly.com/article/36724933
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138 **Isospin Breaking in K → ππ Decays**
European Physical Journal C · 33, 369-396
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73 citations

139 **τ− → (πππ)−ντ: Theory Versus Experiment**
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0 citations

140 **Rho Meson Properties**
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141 **Chiral Loop Corrections and Isospin Violation Effects in ε'/ε**
Nuclear Physics, Section B, Proceedings Supplements · 133, 233-238
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142 Phenomenology of the Green's Function Within the Resonance Chiral Theory
Nuclear Physics, Section B, Proceedings Supplements · 133, 215-218
https://exaly.com/article/37155176
3 citations

143 VAP Green Function in the Resonance Region
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics · 596, 96-106
https://exaly.com/article/37199026
85 citations

144 Quantum Loops in the Resonance Chiral Theory: The Vector Form Factor
Journal of High Energy Physics · 2004, 042
https://exaly.com/article/37337788
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145 Rho Meson Properties in the Chiral Theory Framework
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146 Vector Form Factor of the Pion : A Model-Independent Approach
Nuclear Physics, Section B, Proceedings Supplements · 121, 179-182
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147 Leptonic Probes of the Standard Model
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148 NNLO τ+τ− Production Cross Section at Threshold
Nuclear Physics, Section B, Proceedings Supplements · 121, 205-208
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