

# List of Publications

Wolfram Weise

## A. Books

**Quarks and Nuclei** (Editor)  
World Scientific Publ. Co.  
Singapore/London 1984

**Pions and Nuclei** (with T.E.O. Ericson)  
International Series of Monographs in Physics  
Oxford University Press  
Clarendon, Oxford 1988

Russian Edition:  
Akad. Nauka, Moscow 1991

**The Structure of the Nucleon** (with A.W. Thomas)  
Wiley - VCH Publishing Co.  
Berlin / New York 2001

## B. Co-Editor

J. Dias de Deus, L.S. Ferreira, J.E. Ribeiro, W. Weise (eds.):  
**Hadrons, their Structure and Interactions**  
Proceeding of the XI Autumn School in Physics, Lissabon, 1989  
World Scientific Publ. (1990)

A. Richter, W. Weise (eds.):  
**Festschrift for Torleif Ericson**  
on the Occasion of his 60th Birthday  
Nuclear Physics **A 518** (1990)

B.F. Gibson, P.D. Barnes, J.B. McClelland, W. Weise (eds.):  
**Baryons '95**  
Proceedings of the 7th International Conference on the Structure of Baryons,  
Santa Fe, 1995  
World Scientific Publ. (1996)

D.N. Schramm, W. Weise (eds.):  
**Festschrift for Gerald E. Brown**  
on the Occasion of his 70th Birthday  
Nuclear Physics **A 606** (1996)

H. Nifenecker, J.-P. Blaizot, G.F. Bertsch, W. Weise, F. David (eds.)  
**Trends in Nuclear Physics, 100 years later**  
Les Houches, Session LXVI  
North-Holland/Elsevier, Amsterdam (1998)

## C. Publications in Journals (incl. selected invited talks in Conference Proceedings)

1. W. Weise, M. Huber, M. Danos  
Microscopic Description of the  $(\gamma, pn)$  Reaction  
Z. Physik **236** (1970) 176
2. W. Weise  
Informations about Short Range Correlations from  $(\gamma, pn)$  Coincidence Experiments  
Lett. Nuovo Cim. **4** (1970) 541
3. W. Weise, M. Huber  
Microscopic Description of  $(\gamma, p)$  and  $(\gamma, n)$  Reactions at Intermediate Photon Energies  
Nucl. Phys. **A 162** (1971) 330
4. W. Weise  
Angular Distributions of High Energy Photons  
Phys. Lett. **B 38** (1972) 301
5. W. Weise  
Effects of Short Range Correlations on the Quasi-Elastic Scattering of Electrons  
Nucl. Phys. **A 193** (1972) 652
6. W. Weise  
Modified Gell-Mann - Goldberger - Thirring Sum Rule  
Proc. Int. Conf. on Photonuclear Reactions, Asilomar (1973), p. 95
7. W. Weise  
Note on Hadronic Shadowing Effects in High-Energy Photon-Nucleus Interactions  
Phys. Lett. **B 45** (1973) 219
8. W. Weise  
Generalized Dispersive Photonuclear Sum Rule  
Phys. Rev. Lett. **31** (1973) 773
9. W. Weise, G.E. Brown  
Correlation Effects in Pion Condensates  
Phys. Lett. **B 48** (1974) 209
10. W. Weise  
Hadronic Aspects of Photon-Nucleus Interactions  
Phys. Reports **13** (1974) 53
11. M. Dillig, W. Weise  
Non-Linear Density Dependence in Low-Energy Kaon-Nucleus Interactions  
Phys. Lett. **B 52** (1974) 257
12. S.O. Bäckman, W. Weise  
Calculation of the Threshold for Pion Condensation in Neutron Matter  
Phys. Lett. **B 55** (1975) 1
13. W. Weise  
Photonuclear Sum Rules  
in: Interaction Studies in Nuclei, North Holland Publ. Co.,  
Amsterdam (1975), p.679
14. W. Weise, G.E. Brown  
Equation of State for Neutron Matter in the Presence of a Pion Condensate  
Phys. Lett. **B 58** (1975) 300

15. R. Händel, W. Weise  
Final State Interactions in Pion Photoproduction from Nuclei  
Lett. Nuovo Cim. **14** (1975) 592
16. G.E. Brown, W. Weise  
Pion Scattering and Isobars in Nuclei  
Phys. Reports **22** (1975) 279
17. E. Oset, W. Weise  
Density Dependent Pion-Nucleon Vertex Corrections in Nuclei  
Phys. Lett. **B 60** (1976) 141
18. D.O. Riska, M. Brack, W. Weise  
Pionic Disintegration of the Deuteron  
Phys. Lett. **B 61** (1976) 41
19. G.E. Brown, W. Weise  
Pion Condensates  
Phys. Reports **27** (1976) 1
20. O. Maxwell, W. Weise  
Properties of Pion Condensed Neutron Stars  
Phys. Lett. **B 62** (1976) 159
21. W. Weise, L. Tauscher  
Kaonic Atoms and the  $\Lambda(1405)$   
Phys. Lett. **B 64** (1976) 424
22. W. Weise  
 $\Delta$ -Isobar Dynamics in Finite Nuclei: Pion Elastic Scattering  
Nucl. Phys. **A 278** (1977) 402
23. W. Weise  
Sum Rules in Photonuclear Physics  
Lecture Notes in Phys. **61** (1977) 484
24. G.E. Brown, S.O. Bäckman, E. Oset, W. Weise  
Calculation of the Spin-Dependent Parameters in the Landau-Migdal Theory of Nuclei  
Nucl. Phys. **A 286** (1977) 191
25. R. Brockmann, W. Weise  
 $\Lambda N$ -Interaction and Spin-Orbit Coupling in Hypernuclei  
Phys. Lett. **B 69** (1977) 167
26. R. Brockmann, W. Weise  
Spin-Orbit Coupling in a Relativistic Hartree Model for Finite Nuclei  
Phys. Rev. **C 16** (1977) 677
27. W. Weise  
Medium Energy Meson Physics  
Acta Phys. Austr. Suppl. **XVIII** (1977) 677
28. M. Brack, D.O. Riska, W. Weise  
Pionic Disintegration of the Deuteron  
Nucl. Phys. **A 287** (1977) 425
29. P. Hecking, R. Brockmann, W. Weise  
Pseudoscalar and Pseudovector Coupling of a Pion to a Bound Dirac Nucleon  
Phys. Lett. **B 72** (1978) 432
30. Y. Futami, H. Toki, W. Weise  
Role of the Effective Nucleon Mass for Pion Condensation in Nuclear Matter  
Phys. Lett. **B 77** (1978) 37
31. R. Brockmann, W. Weise, L. Tauscher  
 $Y^*$  Resonances and Kaonic Atoms  
Nucl. Phys. **A 308** (1978) 365
32. E. Oset, W. Weise  
Microscopic Calculation of Medium Corrections to Pion-Nuclear Elastic Scattering  
Phys. Lett. **B 77** (1978) 159
33. W. Weise  
Pion-Nucleus Interactions  
Lecture Notes in Phys. **87** (1978) 177
34. H. Toki, Y. Futami, W. Weise  
Equation of State for Pion-Condensed Neutron Matter at Finite Temperature  
Phys. Lett. **B 78** (1978) 547
35. S.O. Bäckman, W. Weise  
Pion Condensation and Pion-Nuclear Interaction  
in: Mesons in Nuclei (M. Rho, D. Wilkinson, eds.), North-Holland Publ. Co., Amsterdam (1979), p. 1095
36. E. Oset, W. Weise  
Isobar-Hole Description of Pion Elastic Scattering and the Pion-Nuclear Many Body Problem  
Nucl. Phys. **A 319** (1979) 477
37. E. Oset, W. Weise  
Elastic Scattering of Pions from Oxygen in the Isobar-Hole model  
Nucl. Phys. **A 329** (1979) 365
38. W. Weise  
Pion Condensation in Dense Nuclear and Neutron Matter  
in: Trends in Physics 1978, Hilger Publ. Co., London (1979), p.361
39. E. Oset, W. Weise, R. Brockmann  
The Absorptive Part and Other Higher Order Corrections in the Low Energy Pion-Nucleus Optical Potential  
Phys. Lett. **B 82** (1979) 344
40. H. Toki, W. Weise  
Precritical Behaviour in Pion-Like Nuclear Excited States  
Phys. Rev. Lett. **42** (1979) 1034
41. N. Mukhopadhyay, H. Toki, W. Weise  
Spin-Isospin Polarizability of Nuclear Matter and Renormalization of Weak Currents  
Phys. Lett. **B 84** (1979) 35
42. P. Hecking, W. Weise  
Pion Condensation and Density Isomerism in Nuclear Matter  
Phys. Rev. **C 20** (1979) 1074
43. W. Weise  
Many-Body Approach to Pion-Nucleus Scattering  
APS Conf. Proc. **54** (1979) 576
44. H. Toki, W. Weise  
Investigation of the Pion Condensation Threshold in Finite Nuclei  
Z. Physik **A 292** (1979) 389

45. O.V. Maxwell, W. Weise, M. Brack  
Meson-Baryon Dynamics and the  $pp \rightarrow d\pi$  Reaction : (I) Total and Differential Cross Sections  
Nucl. Phys. **A 348** (1980) 388
46. H. Toki, W. Weise  
The Tensor Force in Heavy Nuclei: High Momentum Collectivity in Unnatural Parity Excitations  
Z. Physik **A 295** (1980) 187
47. H. Toki, W. Weise  
Inelastic Electron Scattering to the 15.1 MeV State in Carbon  
Phys. Lett. **B 92** (1980) 265
48. E. Oset, W. Weise  
Total Photonuclear Cross Sections in the 3.3 Resonance Region  
Phys. Lett. **B 94** (1980) 19
49. O.V. Maxwell, W. Weise  
Meson-Baryon Dynamics and the  $pp \rightarrow d\pi$  Reaction : (II) Polarization Parameters  
Nucl. Phys. **A 348** (1980) 429
50. H. Toki, W. Weise  
On the Mass Dependent Quenching of Magnetic Transitions in Nuclei  
Phys. Lett. **B 97** (1980) 12
51. R. Brockmann, W. Weise  
Relativistic Single Particle Motion and Spin-Orbit Coupling in Nuclei and Hypernuclei  
Nucl. Phys. **A 355** (1981) 365
52. W. Weise  
Pion-Nuclear Many Body Problems  
Proc. Int. School on Nuclear Structure, Plenum Press, New York 1981, p. 91
53. W. Weise  
Photon Induced Excitation of the  $\Delta(1232)$  in Nuclei  
Nucl. Phys. **A 358** (1981) 163
54. W. Weise  
Inelastic Electron and Proton Scattering to Pion-Like Nuclear Excited States  
Lecture Notes in Phys. **137** (1981) 93
55. W. Weise, E. Werner  
Quark Dynamics and Pion-Nucleon Coupling  
Phys. Lett. **B 101** (1981) 223
56. W. Weise  
Pion Condensation and Nuclear Spin-Isospin Correlations  
Comm. Part. Nucl. Phys. **10** (1981) 109
57. O.V. Maxwell, J.M. Richard, W. Weise  
A Model for Pion Emission from Nucleon-Antinucleon Bound States  
Nucl. Phys. **A 362** (1981) 301
58. E. Oset, W. Weise  
Photon-Nucleus Scattering and Coherent Pion Photoproduction in the Delta-Hole Model  
Nucl. Phys. **A368** (1981) 375
59. A. Härting, H. Toki, W. Weise, A. Richter  
Quenching of Magnetic Transitions and  $\Delta(1232)$  Degrees of Freedom in Nuclei  
Phys. Lett. **B 104** (1981) 261
60. E. Oset, H. Toki, W. Weise  
Pionic Modes of Excitation in Nuclei  
Phys. Reports **83** (1982) 281
61. W. Weise  
Pionic and  $\Delta(1232)$  Degrees of Freedom in Nuclei  
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62. R. Tegen, R. Brockmann, W. Weise  
Electromagnetic Properties of Relativistic Quarks in Confining Potentials  
Z. Physik **A 307** (1982) 339
63. W. Weise  
Chiral Bag Models and the Lorentz-Lorenz Correction  
Phys. Lett. **B 117** (1982) 150
64. G.E. Brown, H. Toki, W. Weise, A. Wirzba  
Double  $\Delta(1232)$  Formation in Pion-Nuclear Absorption  
Phys. Lett. **B 118** (1982) 39
65. R. Brockmann, W. Weise, E. Werner  
Chiral Symmetry Breaking, Confining Potentials and the Goldstone Pion  
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66. W. Weise  
Role of the  $\Delta(1232)$  in Nuclear Isovector Spin Transitions  
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67. R. Tegen, M. Schedl, W. Weise  
On the Axial Charge and Other Static Properties of the Quark Core in Nucleons  
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68. W. Weise  
Chiral Quark Dynamics of the Pion-Nucleon System  
in: Quarks, Mesons and Isobars in Nuclei, World Sci. Publ. (1983), p. 146
69. W. Steffen, H.D. Gräf, A. Richter, A. Härting, W. Weise, U. Deutschmann, G. Lahm, R. Neuhausen  
Form Factor of the M1 Transition to the 10.23 MeV State in  $^{48}\text{Ca}$  and the Role of the  $\Delta(1232)$   
Nucl. Phys. **A 404** (1983) 413
70. R. Tegen, W. Weise  
The Nucleon Axial Form Factor and the Pion-Nucleon Vertex Function  
Z. Physik **A 314** (1983) 357
71. V. Bernard, R. Brockmann, M. Schaden, W. Weise, E. Werner  
The Goldstone Pion and the Quark-Antiquark Pion: (I) Pion Mass and Strength Function  
Nucl. Phys. **A 412** (1984) 349
72. W. Weise  
The Interplay Between Nucleonic and Nuclear Spin-Isospin Excitations  
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73. A. Härting, M. Kohno, W. Weise  
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74. E. Oset, R. Tegen, W. Weise  
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75. V. Bernard, R. Brockmann, W. Weise, E. Werner  
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76. W. Weise  
Quarks, Chiral Symmetry and Dynamics of Nuclear Constituents  
Int. Rev. Nucl. Phys. **1** (1984) 58
77. W. Weise  
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78. M. Kohno, W. Weise  
Quark Model Description of Low Energy Proton-Antiproton Annihilation into Two Mesons  
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79. W. Weise  
What is the Pion ?  
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Nucl. Phys. **A 454** (1986) 429
84. G.E. Brown, M. Rho, W. Weise  
Phenomenological Delineation of the Quark-Gluon Structure from Nucleon Electromagnetic Form Factors  
Nucl. Phys. **A 454** (1986) 669
85. R. Hausmann, W. Weise  
Shell Model Analysis of Sigma-Hypernuclear Spectra for Mass A=12 and A=16  
Z. Physik **A 324** (1986) 355
86. L. Bayer, H. Forkel, W. Weise  
Modified Lee-Friedberg Soliton-Bag Model with Absolute Confinement  
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87. H. Forkel, W. Weise  
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88. M. Kohno, W. Weise  
Role of Kaon Exchange in the  $pp \rightarrow \Lambda\Lambda$  Reaction  
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89. U.G. Meißner, N. Kaiser, W. Weise, A. Wirzba  
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90. G.E. Brown, W. Weise, G. Baym, J. Speth  
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91. W. Weise  
Chiral Dynamics of Nuclear Constituents  
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92. A. Wirzba, W. Weise  
The E2/M1 Transition Ratio for  $\gamma N \rightarrow \Delta(1232)$  in a Modified Skyrme Model  
Phys. Lett. **B 188** (1987) 6
93. U.G. Meißner, N. Kaiser, W. Weise  
Skyrme Solitons with Vector Mesons: Electromagnetic and Axial Properties  
Nucl. Phys. **A 466** (1987) 685
94. W. Weise  
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in: Windsurfing the Fermi Sea (T. Kuo, J. Speth, eds.), North-Holland Publ. Co., Amsterdam 1987, p. 185
95. M. Kohno, R. Hausmann, P. Siegel, W. Weise  
 $\Sigma$ -Hypernuclear Spectra from (K,p) Inclusive Reactions  
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96. W. Weise  
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97. N. Kaiser, U.G. Meißner, W. Weise  
Pion-Nucleon Vertex Form Factor in a Chiral Soliton Model with Vector Mesons  
Phys. Lett. **B 198** (1987) 319
98. R. Hausmann, P. Siegel, W. Weise, M. Kohno  
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99. G.E. Brown, S. Klimt, M. Rho, W. Weise  
Phenomenological Sizes of Confinement Regions in Baryons  
Z. Physik **A 331** (1988) 139
100. M. Kohno, W. Weise  
Antihyperon-Hyperon Production in Low Energy Antiproton-Proton Reactions  
Nucl. Phys. **A 479** (1988) 433
101. T. Ainsworth, G.E. Brown, M. Prakash, W. Weise  
Loop Corrections and Other Many-Body Effects in Relativistic Field Theories  
Phys. Lett. **B 200** (1988) 413
102. M. Wakamatsu, W. Weise  
Meson Exchange Currents in the Skyrme Soliton Model  
Nucl. Phys. **A 477** (1988) 559
103. W. Weise  
Chiral Symmetry and Nucleon Structure  
Prog. Part. Nucl. Phys. **20** (1988) 113
104. W. Weise  
Unique Nuclear Features of Strangeness  
Nucl. Phys. **A 478** (1988) 145

105. B. Golli, W. Weise  
Soliton-Antisoliton Annihilation in 1+1 Dimensions: Time Dependent Hartree Approach  
Phys. Rev. D **37** (1988) 2257
106. W. Weise  
Selected Problems in Pion Physics  
AIP Conf. Proc. **163** (1988) 2723
107. W. Weise  
Low Energy Antinucleon-Nucleon Potentials  
Nucl. Sci. Res. Conf. Series **14** (1988) 287
108. V. Bernard, B. Hiller, W. Weise  
Pion Electromagnetic Polarizability and Chiral Models  
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109. M. Kohno, W. Weise  
The  $pp \rightarrow \Lambda\Lambda$  Reaction close to Threshold  
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110. M. Wakamatsu, W. Weise  
The Nambu and Jona-Lasinio Model and Low Energy Effective Meson Lagrangians  
Z. Physik A **331** (1988) 173
111. G.E. Brown, C.B. Dover, P. Siegel, W. Weise  
K-Nucleus Scattering and the "Swelling" of Nucleons in Nuclei  
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112. N. Kaiser, U. Vogl, W. Weise, U.G. Meißner  
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113. P. Siegel, W. Weise  
Low Energy K-Nucleon Potentials and the Nature of the  $\Lambda(1405)$   
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114. J. Ahrens, L.S. Ferreira, W. Weise  
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115. W. Weise  
The Nucleon-Nucleon Interaction: Meson- versus Quark-Dynamical Approaches  
in: The Many Facets of Nuclear Physics, World Sci. Publ., Singapore 1988, p.94
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Features of Pion-Nucleon Scattering with Nucleons as Chiral Solitons  
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117. S. Klimt, W. Weise  
Static Hyperon Properties in a Linearized SU(3) Chiral Bag Model  
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118. R. Hausmann, W. Weise  
Shell Model Calculations of L-Hypernuclear Spectra from (p, K) Reactions  
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119. S. Mundigl, W. Weise  
Spin Observables in Charge Exchange Reactions with Delta-Isobar Formation  
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120. A. Hosaka, H. Toki, W. Weise  
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Hidden Local Symmetry Schemes  
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121. W. Weise  
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123. S. Mundigl, M. Vicente Vacas, W. Weise  
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130. S. Klimt, M. Lutz, U. Vogl, W. Weise  
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SIZES OF HADRONS  
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Non-Linear Meson Theories and Electromagnetic Polarizability of the Nucleon  
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Chiral Phase Transition in the SU(3) Nambu and Jona-Lasinio Model  
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140. S. Mundigl, M. Vicente Vacas, W. Weise  
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Singlet Fraction in  $p\bar{p} \rightarrow \Lambda\bar{\Lambda}$   
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142. S. Mundigl, M. Vicente Vacas, W. Weise  
Two-Meson Doorway Model of Low Energy Antiproton-Proton Annihilation  
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Nucl. Phys. A **531** (1991) 520
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