

List of Publications, H.-J. Mikeska

1. Eine Möglichkeit zur experimentellen Trennung von Para- und Diamagnetismus der Leitungselektronen
E. Fick and HJM
Z. Naturforschung **16a**, 435 (1961)
2. The Shape of the Giant Dipole Resonance for Light Nuclei
HJM
Z. Physik **177**, 441 (1964)
3. Nuclear Photoeffect in O^{16} above the Giant Resonance
HJM
Congr. Intern. de Physique Nucléaire, Paris 1964, 1056 (1964)
4. Low Temperature Specific Heat of Liquid He^3
W. Brenig and HJM
Phys. Letters **24A**, 332 (1967)
5. Phonon Effects in the Motion of Positrons in Metals
HJM
Phys. Letters **24A**, 402 (1967)
6. On the Specific Heat of Fermi Liquids
W. Brenig, HJM and E. Riedel
Z. Physik **206**, 439 (1967)
7. Odd Parity States of O^{16} according to the Fermi Liquid Theory
K. Hacker and HJM
Phys. Letters **26B**, 357 (1968)
8. Conservation Laws and Residual Interaction in Nuclei
HJM and W. Brenig
Z. Physik **220**, 321 (1969)
9. Critical Heat Flux in Liquid Helium II Close to the λ -Transition
HJM
Phys. Rev. **179**, 166 (1969)
10. A Relation between Critical Exponents for the Lambda Phase Transition in Liquid Helium
HJM
Z. Physik **229**, 57 (1969)
11. Magnetic Field Effects in the Onset of Superconductivity
HJM and H. Schmidt
Z. Physik **230**, 239 (1970)

12. Effects of Positron- Phonon Interaction in Metals
HJM
Z. Physik **232**, 159 (1970)
13. Phase Transition without Long Range Order in Two Dimensions
HJM and H. Schmidt
J. Low Temp. Physics **2**, 371 (1970)
14. The Onset of Surface Superconductivity
H. Schmidt and HJM
J. Low Temp. Physics **3**, 123 (1970)
15. Surface Effects in the Onset of Superconductivity
HJM
Proc. of the 12th Int. Conf. on Low Temp. Physics, ed. E. Kanda, Tokyo
1971, p. 225
16. Theoretical Analysis of Light Scattering from Superfluid Helium close
to the λ Phase Transition
H.H. Kretzen and HJM
Phys. Letters **43A**, 525 (1973)
17. Phonon Peaks in the Dynamic Structure Fuction of Lattices without
Long Range Order
HJM
Solid State Communications **13**, 73 (1973)
18. On the Theory of Quasi Two-Dimensional Heisenberg Magnets
HJM
Z. Physik **261**, 437 (1973)
19. On the Dynamics of the Classical Heisenberg Chain
H.H. Kretzen, HJM and E. Patzak
Z. Physik **271**, 269 (1974)
20. Cyclotron Resonance of Electrons in Localized Surface States
HJM and H. Schmidt
Z. Physik **B20**, 43 (1975)
21. Correlation Functions in Heisenberg Magnetic Chains: Quantum Ef-
fects at Low Temperatures
HJM
Phys. Rev. **B12**, 2794 (1975)
22. On the Dynamics of One-Dimensional Magnets with an Easy-Plane
E. Allroth and HJM
J. Phys. C: Solid State Phys., **8**, L 523 (1975)

23. Anharmonic Effects and the Infrared Singularity in Magnetic Chains with XY Symmetry
HJM and E. Patzak
Z. Physik B**26**, 253 (1977)
24. Boundary Effects on Static Spin Correlation Functions in the Isotropic X-Y Chain at Zero Temperature
HJM and W. Pesch
Z. Physik B**26**, 351 (1977)
25. Solitons in a One-Dimensional Magnet with an Easy Plane
HJM
J. Phys. C: Solid State Phys., **11**, L 29 (1978)
26. Dynamical Correlation Functions in the X-Y Model
W. Pesch and HJM
Z. Physik B **30**, 177 (1978)
27. On the Dynamic Structure Factor in One-Dimensional Heisenberg Magnets
HJM and W. Pesch
J. Phys. C: Solid Sate Phys. **12**, L 37 (1979)
28. Magnetic Chains in Solids
HJM
J. Magn. Magn. Mat. **13**, 35 (1979)
29. Nonlinear dynamics of classical one-dimensional antiferromagnets
HJM
J. Phys. C: Solid State Phys. **13**, 2913 (1980)
30. Magnetism in low dimensions - report on an informal panel discussion
J.C. Bonner, J. Dejongh, C.P. Landee, R. Jullien, M. Barma, D. Landau, M. Steiner, H.J. Mikeska, J.P. Boucher, J. Villain, G. Müller, H.W. Capel and H. Beck
J. Magn. Magn. Mat. **15-18**, 1003 (1980)
31. Nonlinear Dynamics of One-Dimensional Magnets
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J. Magn. Magn. Mat. **15-18**, 1061 (1980)
32. On the low-frequency dynamics of the classical Sine-Gordon chain
E. Allroth and HJM
J. Phys. C: Solid State Phys. **13**, L 725 (1980)

33. Solitons in one-dimensional magnets
HJM
J. Appl. Physics **52**, 1950 (1981)
34. Solitons in one-dimensional magnets with various symmetries
HJM
in: Physics in One Dimension, eds. J. Bernasconi und T. Schneider,
Berlin 1981, p.153
35. On the dynamics of impure classical Heisenberg chains
E. Patzak and HJM
Z. Physik B **42**, 317 (1981)
36. Solitons and magnons in Sine-Gordon like magnetic chains
E. Allroth and HJM
Z. Physik B **43**, 209 (1981)
37. Soliton energy in an easy-plane quantum spin chain
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Phys. Rev. **26**, 5213 (1982)
38. Solitons in the one-dimensional easy-plane ferromagnet
HJM
Physica **120B**, 235 (1983)
39. Nonlinear modes and statistical mechanics of a classical Heisenberg
chain with two anisotropies
C. Etrich and HJM
J. Phys. C: Solid State Phys. **16**, 4889 (1983)
40. Dynamics of the soliton instability in the easy-plane ferromagnetic
chain
HJM and K. Osano
Z. Physik B **52**, 111 (1983)
41. On the nonlinear dynamics of the easy-plane antiferromagnetic chain
in an external magnetic field
N. Flüggen and HJM
Solid State Communications **48**, 293 (1983)
42. On the dynamics of a quantum system which is classically chaotic
H. Frahm and HJM
Z. Phys. B **60**, 117 (1985)
43. Solitons on a discrete ferromagnetic spin chain
C. Etrich, HJM, E. Magyari, H. Thomas and R. Weber
Z. Physik B **62**, 97 (1985)

44. Solitons on a realistic ferromagnetic chain
C. Etrich, N. Flüggen and HJM
J. Magn. Magn. Mat. **54-57**, 837 (1986)
45. Classical stochasticity and quantum uncertainty in a simple quantum spin model
H. Frahm and HJM
J. Magn. Magn. Mat. **54-57**, 1203 (1986)
46. Soliton contribution to the specific heat of CsNiF₃: Quantum effects and out-of-plane fluctuations
HJM and H. Frahm
J. Phys. C: Solid State Phys. **19**, 3203 (1986)
47. Levelstatistics and stochasticity in a driven quantum system
H. Frahm and HJM
Z. Physik B **65**, 249 (1986)
48. Quantum chaos of periodically pulsed systems: Underlying complete integrability
K. Nakamura and HJM
Phys. Rev. A **35**, 5294 (1987)
49. Towards a quantitative theory of solitons in one-dimensional magnets: Quantum effects, out-of-plane fluctuations and the specific heat
HJM and H. Frahm
in: Nonlinearity in Condensed Matter, A.R. Bishop, D.K. Campbell, P. Kumar and S.E. Trullinger (Eds.), Springer Berlin (1987), p.53
50. Chaos in a driven Quantum System
HJM and H. Frahm
in: Chaos, Noise and Fractals, E.R. Pike and L.A. Lugiato (Eds.), Adam Hilger Bristol (1987), p. 117
51. Quantum suppression of irregularity in the spectral properties of the kicked rotator
H. Frahm and HJM
Phys. Rev. Letters **60**, 3 (1988)
52. Comment on „Quantum suppression of irregularity in the spectral properties of the Kicked Rotator“: Frahm and Mikeska reply
Phys. Rev. Letters **61**, 378(C) (1988)

53. Nonlinear excitations in a realistic ferromagnetic chain: Thermodynamics and correlation functions
C. Etrich and HJM
J. Phys. C: Solid State Phys. **21**, 1583 (1988)
54. Stochastic formulation of energy-level statistics
H. Hasegawa, HJM and H. Frahm
Phys. Rev. A **38**, 395 (1988)
55. Thermodynamic properties of the classical Heisenberg chain with nearest- and next-nearest-neighbor interactions
I. Harada and HJM
Z. Phys. B **72**, 391 (1988)
56. Quantum Effects on Soliton Properties in Ferromagnetic Spin Chains
H.C. Fogedby, N. Elstner and HJM
J. de Physique **C8**, 1593 (1988)
57. The effect of nonmagnetic impurities on the thermodynamics of a helimagnetic chain
I. Harada and HJM
J. de Physique **C8**, 1407 (1988)
58. Solitons in the anisotropic xy chain: Semiclassical treatment of quantum effects
N. Elstner and HJM
J. Phys.: Condensed Matter, **1**, 1487 (1989)
59. Quantum Fluctuations in Sine-Gordon like magnetic chains: Corrections to soliton energies
HJM, B. Vaz da Costa and H.C. Fogedby
Z. Phys. B **77**, 119 (1989)
60. Thermodynamics and correlations of a helical spin chain with nonmagnetic impurities
I. Harada and HJM
J. Phys.: Condensed Matter **2**, 953 (1990)
61. Quantum Fluctuations and magnetic solitons: Equivalence of discrete lattice and renormalized continuum approaches
HJM
Z. Phys. B **78**, 57 (1990)
62. Parametric motion of energy levels: Curvature distribution
P. Gaspard, S.A. Rice, HJM and K. Nakamura
Phys. Rev. A **42**, 4015 (1990)

63. Quantum Monte Carlo study of a two-dimensional Heisenberg Antiferromagnet with non-magnetic impurities
J. Behre, S. Miyashita and HJM
J.Phys.A: Math.Gen. **23**, L1175 (1990)
64. Static properties of CsNiF₃: Comparison of numerical results, experimental data and predictions from soliton-bearing models
T. Delica, W.J.M. de Jonge, K. Kopinga, H. Leschke and HJM
Phys. Rev. B**44**, 11773 (1991)
65. Static properties of CsNiF₃: numerical results, experimental data and soliton-bearing models
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J. Magn. Magn. Mat. **104 - 107**, 795 (1992))
66. Quantum Monte Carlo study of a two-dimensional Heisenberg antiferromagnet with nonmagnetic impurities
J. Behre, S. Miyashita and HJM
J. Magn. Magn. Mat. **104 - 107**, 863 (1992))
67. Solitons in Quantum Spin Chains
HJM, S. Miyashita and G. Ristow
in: Microscopic Aspects of Nonlinearity in Condensed Matter, A.R. Bishop, V.L. Pokrovsky and V. Tognetti (eds.) NATO ASI Series B: Physics Vol. 264, Plenum Press New York (1991), p.167
68. $S = \frac{1}{2}$ magnetic chains as domain wall systems
HJM, S. Miyashita and G. Ristow
J. Phys.: Condens. Matter **3**, 2985 (1991)
69. Solitary excitations in one-dimensional magnets
HJM and M. Steiner
Adv. Phys. **40**, 191 (1991)
70. Phase Diagram and Excitation Spectrum of $S = 1$ Antiferromagnetic Heisenberg Chains
HJM
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71. Ground state, low lying excited states and phase diagram of anisotropic $S = 1$ linear antiferromagnets
N. Elstner and HJM
Z. Phys. B - Condensed Matter **89**, 321 (1992)

72. String correlations of the antiferromagnetic spin-1 chain: Excited states and magnetic field effects
N. Elstner and HJM
Phys. Rev. B **50**, 3907 (1994)
73. Quantum solitons and the Haldane phase in antiferromagnetic spin chains
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Acta physica slovacica **44**, 377 (1994))
74. Quantum solitons and the Haldane phase in antiferromagnetic spin chains
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Chaos, Solitons and Fractals **5**, 2585 (1995)
75. Dressed solitonic excitations for the AKLT Hamiltonian
R. Scharf and HJM
J.Phys.: Condens. Matter **7**, 5083 (1995)
76. Formation of the Haldane phase by soliton-pair dissociation: Results from a cluster approximation
HJM and P. Verrucchi
Phys. Rev. B **52**, 3571 (1995)
77. Domain wall theory of elementary excitations in anisotropic antiferromagnetic $S = 1$ chains
U. Neugebauer and HJM
Z. Phys. B - Condensed Matter **99**, 151 (1996)
78. Phase transition in the Heisenberg spin ladder with ferromagnetic legs
A.K. Kolezhuk and HJM
Phys. Rev. B **53**, R8848 (1996)
79. Classical and quantum solitons in the transverse field Ising model
HJM and S. Miyashita
Z. Phys. B - Condensed Matter **101**, 275 (1996)
80. The phase diagram and hidden order for generalized spin ladders
S. Brehmer HJM and U. Neugebauer
J.Phys.: Condens. Matter **8**, 7161 (1996)
81. Spin ladders with nonmagnetic impurities
HJM, U. Neugebauer and U. Schollwöck
Phys. Rev. B **55**, 2955 (1997)

82. Matrix-product states approach to Heisenberg ferrimagnetic spin chains
With A.K. Kolezhuk and Shoji Yamamoto
Phys. Rev. B**55**, R3336 (1997)
83. Low-temperature properties of quantum antiferromagnetic chains with
alternating spins $S = 1$ and $S = \frac{1}{2}$
S. Brehmer, HJM and Shoji Yamamoto
J.Phys.: Condens. Matter **9**, 3921 (1997)
84. Models with exact ground states connecting smoothly the $S = \frac{1}{2}$ dimer
and $S = 1$ Haldane phases of one-dimensional spin chains
A.K. Kolezhuk and HJM
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85. Elementary excitations in the gapped phase of a frustrated $S=1/2$ spin
ladder: from spinons to the Haldane triplet
S. Brehmer, A.K. Kolezhuk, HJM and U. Neugebauer
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86. Magnetic excitations in spin ladders with intrinsic impurities
HJM and U. Neugebauer
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87. Specific heat measurements on the quasi-one dimensional magnet $(\text{CH}_3)_4\text{NNiBr}_3$
H. Yamaguchi, K. Katsumata, M. Steiner and HJM
J. Magn. Magn. Mat. **177-181**, 750 (1998)
88. Ground state and thermodynamic properties of the quantum mixed
spin $\frac{1}{2} - \frac{1}{2} - 1 - 1$ chain
T. Tonegawa, T. Hikihara, M. Kaburagi, T. Nishino, S. Miyashita and
HJM
J. Phys. Soc. Jpn. **67**, 1000 (1998)
89. One-dimensional Heisenberg antiferromagnet in which two $S=1/2$ and
two $S=1$ spins are arranged alternatively
T. Tonegawa, T. Hikihara, T. Nishino, M. Kaburagi, S. Miyashita and
HJM
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90. Mixed spin ladders with exotic ground states
A. Kolezhuk and HJM
Eur. Phys. J. B**5**, 543 (1998)
91. Non-Haldane Spin-Liquid Models with Exact Ground States
A. Kolezhuk and HJM
Phys. Rev. Letters **80**, 2709 (1998)

92. Elementary excitations of Heisenberg ferrimagnetic spin chains
S. Yamamoto, S. Brehmer and HJM
Phys. Rev. B**57**, 13610 (1998)
93. Thermodynamics of the $(1, \frac{1}{2})$ ferrimagnet in finite magnetic fields
K. Maisinger, U. Schollwöck, S. Brehmer, HJM and S. Yamamoto
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94. Finitely correlated generalized spin ladders
A. Kolezhuk and HJM
Int. J. Mod. Physics B**12**, 2325 (1998)
95. Spinon signatures in the critical phase of the $(1, \frac{1}{2})$ ferrimagnet in a magnetic field
A.K. Kolezhuk, HJM, K. Maisinger and U. Schollwöck
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96. Effects of biquadratic exchange on the spectrum of elementary excitations in spin ladders
S. Brehmer, HJM, M. Müller, N. Nagaosa and S. Uchida
Phys. Rev. B**60**, 329 (1999)
97. Nonlinear sigma model study of a frustrated spin ladder
C.-M. Nédélec, A.K. Kolezhuk and HJM
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98. Magnetic excitations from the $S = \frac{1}{2}$ two-leg ladders in $\text{La}_6\text{Ca}_8\text{Cu}_{24}\text{O}_{41}$
M. Matsuda, K. Katsumata, R. Eccleston, S. Brehmer and HJM
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99. Ground-State Phase Diagram of the Spin- $\frac{1}{2} - \frac{1}{2} - 1 - 1$ Chain
T. Hikihara, T. Tonegawa, M. Kaburagi, T. Nishino, S. Miyashita and HJM
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100. Single-ion magnon bound states in an antiferromagnet with strong axial anisotropy
K. Katsumata, H. Yamaguchi, M. Hagiwara, M. Tokunaga, HJM, P. Goy and M. Gross
Phys. Rev. B**61**, 11632 (2000)
101. Specific heat of an $S = \frac{1}{2}$ Heisenberg ladder compound $\text{Cu}_2(\text{C}_5\text{H}_{12}\text{N}_2)_2\text{Cl}_4$ under magnetic fields
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M. Hagiwara, H.A. Katori, U. Schollwöck and HJM
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103. Anisotropic $S=1$ magnetic chain in an external field: Low lying energy levels and ESR transition rates
HJM
J. Phys. Soc. Japan **69** Suppl. A, 363 (2000)
104. On the dynamics of coupled $S=\frac{1}{2}$ antiferromagnetic zig-zag chains
M. Müller and HJM
J. Phys.: Condens. Matter **12**, 7633 (2000)
105. Magnetic excitations and exchange interactions in the $S=\frac{1}{2}$ two-leg ladder compound $\text{La}_6\text{Ca}_8\text{Cu}_{24}\text{O}_{41}$
M. Matsuda, K. Katsumata, R. S. Eccleston, S. Brehmer and HJM
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106. Elementary excitations in one-dimensional spin-orbital models: neutral and charged solitons and their bound states
A.K. Kolezhuk, HJM and U. Schollwöck
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107. Electron spin resonance in high-field critical phase of gapped spin chains
A.K. Kolezhuk and HJM
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108. Response functions of gapped spin systems in high magnetic field
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109. Low-lying excitations and magnetization process of coupled tetrahedral systems
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110. Low-lying excitations and magnetization process of $S=1/2$ coupled tetrahedral systems
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111. Magnetic excitations in the spin-gap system TlCuCl_3
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113. Cluster expansion for dimerized spin systems
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114. Perturbation theories for the $S = \frac{1}{2}$ spin ladder with a four-spin ring exchange
M. Müller, T. Vekua and HJM
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115. Phase diagrams of spin ladders with ferromagnetic legs
T. Vekua, G. Japaridze and HJM
Phys. Rev. B **67**, 064419 (2003)
116. Zeeman Levels with Exotic Field Dependence in the High Field Phase of an $S=1$ Heisenberg Antiferromagnetic Chain
M. Hagiwara, Z. Honda, K. Katsumata, A.K. Kolezhuk and HJM
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117. Dynamical structure factors for dimerized spin systems
M. Müller, HJM and N. Cavadini
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118. Dynamics of an anisotropic Haldane antiferromagnet in strong magnetic field
A. Zheludev, S.M. Shapiro, Z. Honda, K. Katsumata, B. Grenier, E. Ressouche, L.-P. Regnault, Y. Chen, P. Vorderwisch, HJM and A.K. Kolezhuk
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119. Ring exchange in low-dimensional spin systems
M. Müller, T. Vekua and HJM
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120. Excitation spectra of gapped 1D spin systems in strong magnetic field
A. K. Kolezhuk and HJM
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121. Magnetic-field-induced phase transitions in spin ladders with ferromagnetic legs
T. Vekua, G. Japaridze and HJM
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122. Field induced disorder in a gapped spin system with non-magnetic impurities
HJM, Asimkumar Ghosh and A.K. Kolezhuk
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123. Semiclassical dynamics of domain walls in the one-dimensional Ising ferromagnet in a transverse field
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124. One-dimensional magnetism
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125. Field and impurity induced ordering in interacting dimer systems
HJM and A. K. Kolezhuk
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126. Finite-temperature dynamics of the spin- $\frac{1}{2}$ bond alternating Heisenberg antiferromagnetic chain
HJM and C. Luckmann
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S. Notbohm, D.A. Tennant, B. Lake, P.C. Canfield, J. Fielden, P. Kögeler, HJM, C. Luckmann and M.T.F. Telling
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129. Dynamics of a distorted diamond chain
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130. Fractional Magnetization Plateaus and Magnetic order in the Shastry-Sutherland Magnet TmB_4
K. Siemensmeyer, E. Wulf, HJM, K. Flachbart, S. Gabani, S. Mat'as, P. Priputen, A. Efdokimova and N. Shitsevalova
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131. Two-spinon and four-spinon continuum in a frustrated ferromagnetic spin-1/2 chain
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133. Anomalous dynamical lineshapes in a quantum magnet at finite temperature
D.A. Tennant, B. Lake, A.J.A. James, F.H.L. Essler, S. Notbohm, HJM, J. Fielden, P. Kögeler, P.C. Canfield, and M.T.F. Telling
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F. Amiri, G. Sun, HJM and T. Vekua
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