List of Publications

Monograph:

The One-Dimensional Hubbard Model,
F.H.L. Essler, F. Göhmann, H. Frahm, A. Klümper and V.E. Korepin,
690 pages, Cambridge University Press, Cambridge (2005);
ISBN-10: 0521802628 — ISBN-13: 9780521802628

Publications in Refereed Journals:

144. A short introduction to Generalized Hydrodynamics
      F.H.L. Essler,
      Physica A, 127572 (2022).

143. Bogoliubov-Born-Green-Kirkwood-Yvon Hierarchy and Generalized Hydrodynamics
      B. Bertini, E. Granet and F.H.L. Essler,
      Phys. Rev. Lett. **128**, 190401 (2022).

142. Duality between Weak and Strong Interactions in Quantum Gases
      E. Granet, B. Bertini and F.H.L. Essler,
      Phys. Rev. Lett. **128**, 021604 (2022).

141. Dynamics of Fluctuations in Quantum Simple Exclusion Processes
      D. Bernard, F.H.L. Essler, L. Hruza and M. Medenjak,
      SciPost Phys. **12**, 042 (2022).

140. Out-of-equilibrium dynamics of the XY spin chain from form factor expansion
      E. Granet, H. Dreyer and F.H.L. Essler,
      SciPost Phys. **12**, 019 (2022).

139. Exact solution of a quantum asymmetric exclusion process with particle creation and annihilation
      J. Robertson and F.H.L. Essler,
      J. Stat. Mech. 103102 (2021).

138. Systematic strong coupling expansion for out-of-equilibrium dynamics in the Lieb-Liniger model
      E. Granet and F.H.L. Essler
      SciPost Phys. **11**, 068 (2021).

137. Integrability of 1D Lindbladians from operator-space fragmentation
      F.H.L. Essler and L. Piroli
      Phys. Rev. E **102**, 062210 (2020).

136. A systematic 1/c-expansion of form factor sums for dynamical correlations in the Lieb-Liniger model
      E. Granet and F.H.L. Essler
      SciPost Phys. **9**, 082 (2020).

135. Finite temperature and quench dynamics in the Transverse Field Ising Model from form factor expansions
      E. Granet, M. Fagotti and F.H.L. Essler,
      SciPost Phys. **9**, 033 (2020).

134. On the low-energy description for tunnel-coupled one-dimensional Bose gases
      Y.D. van Nieuwkerk and F.H.L. Essler,
      SciPost Phys. **9**, 025 (2020).

133. Yang-Baxter integrable Lindblad equations
A.A. Ziolkowska and F.H.L. Essler,
SciPost Phys. **8**, 044 (2020).

132. How order melts after quantum quenches
M. Collura and F.H.L. Essler,
Phys. Rev. B**101**, 041110 (2020).

131. Almost strong $0, \pi$ edge modes in clean, interacting 1D Floquet systems
D.J. Yates, F.H.L. Essler and A. Mitra,
Phys. Rev. B**99**, 205419 (2019).

130. Self-consistent time-dependent harmonic approximation for the Sine-Gordon model out of equilibrium
Y.D. van Nieuwkerk and F.H.L. Essler,
J. Stat. Mech. 084012 (2019).

129. NMR relaxation in Ising spin chains
J. Steinberg, N.P. Armitage, F.H.L. Essler and S. Sachdev,
Phys. Rev. B**99**, 035156 (2019).

128. Exotic criticality in the dimerized spin-1 XXZ chain with single-ion anisotropy
S. Ejima, T. Yamaguchi, F.H.L. Essler, F. Lange, Y. Ohta and H. Fehske,
SciPost Phys. **5**, 059 (2018).

127. Projective phase measurements in one-dimensional Bose gases
Y.D. van Nieuwkerk, J. Schmiedmayer and F.H.L. Essler,
SciPost Phys. **5**, 046 (2018).

126. Integrable spin chains with random interactions
F.H.L. Essler, R. van den Berg and V. Gritsev,
Phys. Rev. B**98**, 024203 (2018).

125. Full Counting Statistics in the Transverse Field Ising Chain
S. Groha, F.H.L. Essler and P. Calabrese,
SciPost Phys. **4**, 043 (2018).

124. Finite temperature dynamics of the Mott insulating Hubbard chain
A. Nocera, F.H.L. Essler and A.E. Feiguin,
Phys. Rev. B**97**, 045146 (2018).

123. Atypical energy eigenstates in the Hubbard chain and quantum disentangled liquids
T. Veness, F.H.L. Essler and M.P.A. Fisher,
Phil. Trans. R. Soc. A 375: 20160433 (2017).

122. Full counting statistics in the spin-1/2 Heisenberg XXZ chain
M. Collura, F.H.L. Essler and S. Groha,
J. Phys. **A 50**, 414002 (2017).

121. Spinon confinement in a quasi one dimensional anisotropic Heisenberg magnet
A. K. Bera, B. Lake, F. H. L. Essler, L. Vanderstraeten, C. Hubig, U. Schollwock, A.T.M.N. Islam, A. Schneidewind and D. L. Quintero-Castro,
Phys. Rev. B**96**, 054423 (2017).

120. Spinon decay in the spin-1/2 Heisenberg chain with weak next nearest neighbour exchange
S. Groha and F.H.L. Essler,
J. Phys. A**50**, 334002 (2017).

119. Quantum-disentangled liquid in the half-filled Hubbard model
T. Veness, F.H.L. Essler and M.P.A. Fisher,
Phys. Rev. B**96**, 195153 (2017).

118. On Truncated Generalized Gibbs Ensembles in the Ising Field Theory
F.H.L. Essler, G. Mussardo and M. Panfil,
J. Stat. Mech. (2017) 013103.

117. Thermalization and light cones in a model with weak integrability breaking
B. Bertini, F.H.L. Essler, S. Groha and N.J. Robinson,
Phys. Rev. B**94**, 245117 (2016).

116. Exact Bethe ansatz spectrum of a tight-binding chain with dephasing noise
M.V. Medvedyeva, F.H.L. Essler and T. Prosen,
Phys. Rev. Lett. **117**, 137202 (2016).

115. Quantum quenches to the attractive one-dimensional Bose gas: exact results
L. Piroli, P. Calabrese and F.H.L. Essler,
SciPost Phys. 1, 001 (2016).

114. Ising tricriticality in the extended Hubbard model with bond dimerization
S. Ejima, F.H.L. Essler, F. Lange and H. Fehske,
Phys. Rev. B**93**, 235118 (2016).

113. Quench dynamics and relaxation in isolated integrable quantum spin chains
F.H.L. Essler and M. Fagotti,
J. Stat. Mech. (2016) 064002.

112. Entanglement growth and correlation spreading with variable-range interactions in spin and fermionic tunnelling models,
A.S. Buyskikh, M. Fagotti, J.Schachenmayer, F.H.L. Essler and A.J. Daley,
Phys. Rev. A**93**, 053620 (2016).

111. Mobile impurity approach to the optical conductivity in the Hubbard chain
T. Veness and F.H.L. Essler,
Phys. Rev. B**93**, 205101 (2016).

110. Optical conductivity of the Hubbard chain away from half filling
A.C. Tiegel, T. Veness, P.E. Dargel, A. Honecker, T. Pruschke, I.P. McCulloch and F.H.L. Essler,
Phys. Rev. B**93**, 125108 (2016).

109. Multi-particle bound state formation following a quantum quench to the one-dimensional Bose gas with attractive interactions
L. Piroli, P. Calabrese and F.H.L. Essler,
Phys. Rev. Lett. **116**, 070408 (2016).

108. Prethermalization and Thermalization in Models with Weak Integrability Breaking
B. Bertini, F.H.L. Essler, S. Groha and N.J. Robinson,
Phys. Rev. Lett. **115**, 180601 (2015).

107. Complete Generalized Gibbs Ensemble in an Interacting Theory
E. Ilievski, J. de Nardis, B. Wouters, J.-S. Caux, F.H.L. Essler and T. Prosen,
Phys. Rev. Lett. **115**, 157201 (2015).

106. Quantum quench within the gapless phase of the spin-1/2 Heisenberg XXZ spin chain
M. Collura, P. Calabrese and F.H.L. Essler,
Phys. Rev. B**92**, 125131 (2015).

105. Spin-charge separated quasiparticles in one dimensional quantum fluids
F.H.L. Essler, R.G. Pereira and I. Schneider,
Phys. Rev. B**91**, 245150 (2015).

104. Generalized Gibbs Ensembles for Quantum Field Theories
F.H.L. Essler, G. Mussardo and M. Panfil,
Phys. Rev. A**91**(R), 051602 (2014).

103. Real-time dynamics in the one-dimensional Hubbard model
L. Seabra, F.H.L. Essler, F. Pollmann, I. Schneider and T. Veness,
Phys. Rev. B 90, 245127 (2014).

102. Quasi-particle breakdown in the quasi-one-dimensional Ising ferromagnet $CoNb_2O_6$
N.J. Robinson, F.H.L. Essler, I. Cabrera and R. Coldea,
Phys. Rev. B**90**, 174406 (2014).

101. Quantum quench in the sine-Gordon model
B. Bertini, D. Schuricht and F.H.L. Essler,
J. Stat. Mech. P10035 (2014).

100. Light-cone dynamics after quantum quenches in spin chains
L. Bonnes, F.H.L. Essler and A. Läuchli
Phys. Rev. Lett. **113**, 187203 (2014).

99. Entanglement Entropies of the quarter-filled Hubbard model
P. Calabrese, F.H.L. Essler and A. Läuchli,
J. Stat. Mech. P09025 (2014).

98. Quench dynamics in a model with tuneable integrability breaking
F.H.L. Essler, S. Kehrein, S.R. Manmana and N.J. Robinson,
Phys. Rev. B**89**, 165104 (2014).

97. Relaxation after quantum quenches in the spin-1/2 Heisenberg XXZ chain
M. Fagotti, M. Collura, F.H.L. Essler and P. Calabrese,
Phys. Rev. B**89**, 125101 (2014).

96. Stationary behaviour of observables after a quantum quench in the spin-1/2 Heisenberg XXZ chain
M. Fagotti and F.H.L. Essler,
J. Stat. Mech. P07012, (2013).

95. Reduced Density Matrix after a Quantum Quench
M. Fagotti and F.H.L. Essler,
Phys. Rev. B**87**, 245107 (2013).

94. Time evolution of local observables after quenching to an integrable model
J.S Caux and F.H.L. Essler,
Phys. Rev. Lett. **110**, 257203 (2013).

93. Shell-Filling Effect in the Entanglement Entropies of Spinful Fermions
F.H.L. Essler, A. Läuchli and P. Calabrese,
Phys. Rev. Lett. **110**, 115701 (2013).

92. Dynamical Correlations after a Quantum Quench, F.H.L. Essler, S. Evangelisti and M. Fagotti,
Phys. Rev. Lett. **109**, 247206 (2012).

91. Quantum Quench in the Transverse Field Ising chain II: Stationary State Properties
P. Calabrese, F.H.L. Essler and M. Fagotti,
J. Stat. Mech. P07022 (2012).

90. Quantum Quench in the Transverse Field Ising chain I: Time evolution of order parameter correlators
P. Calabrese, F.H.L. Essler and M. Fagotti ,
J. Stat. Mech. P07016 (2012).

89. Dynamics in the Ising field theory after a quantum quench
D. Schuricht and F.H.L. Essler,
J. Stat. Mech. P04017 (2012).

88. Finite Wave Vector Pairing in Doped Two-Leg Ladders
N.J. Robinson, F.H.L. Essler, E. Jeckelmann and A.M. Tsvelik,
Phys. Rev. B**85**, 014402 (2012).

87. Discrete Symmetry Breaking Transitions Between Paired Superfluids
M. J. Bhaseen, S. Ejima, F. H. L. Essler, H. Fehske, M. Hohenadler, B. D. Simons,
Phys. Rev. A**85**, 033636 (2012).

86. Observation of Complex Bound States in the Spin-1/2 Heisenberg XXZ Chain using Local Quantum Quenches
M. Ganahl, E. Rabel, F.H.L. Essler and H.-G. Evertz,
Phys. Rev. Lett. **108**, 077206 (2012).

85. Anomalous dynamical line shapes in a quantum magnet at finite temperature
D.A. Tennant, B. Lake, A.J.A. James, F.H.L. Essler, S. Notbohm, H.-J. Mikeska, J. Fielden, P. Kögerler, P. C. Canfield and M.T.F. Telling,
Phys. Rev. B**85**, 014402 (2012).

84. Magnetic Properties of the Second Mott Lobe in Pairing Hamiltonians
M.J. Bhaseen, S. Ejima, M. Hohenadler, A.O. Silver, F.H.L. Essler, H. Fehske and B.D. Simons,
Phys. Rev. A **84**, 023635 (2011).

83. Current large deviation function for the open asymmetric simple exclusion process
J. de Gier and F.H.L. Essler,
Phys. Rev. Lett. **107**, 010602 (2011).

82. Quantum Quench in the Transverse Field Ising Model
P. Calabrese, F.H.L. Essler and M. Fagotti,
Phys. Rev. Lett. **106**, 227203 (2011).

81. Phase diagram and continuous pair-unbinding transition of the bilinear-biquadratic S=1 Heisenberg chain in a magnetic field
S.R. Manmana, A.M. Läuchli, F.H.L. Essler and F. Mila,
Phys. Rev. B**83**, 184433 (2011).

80. Boundary Effects on the Local density of states of 1D Mott insulators and CDW states
D. Schuricht, F.H.L. Essler, A. Jaefari and E. Fradkin,
Phys. Rev. B**83**, 035111 (2011).

79. Ising Deconfinement Transition between Feshbach Resonant Superfluids
S. Ejima, M.J. Bhaseen, M. Hohenadler, F.H.L. Essler, H. Fehske and B.D. Simons,
Phys. Rev. Lett. **106**, 015303 (2011).

78. Low Temperature Dynamical Structure Factor of the 2-Leg spin-1/2 Heisenberg Ladder
W.D. Goetze, U. Karahasanovic and F.H.L. Essler,
Phys. Rev. B**82**, 104417 (2010).

77. Universal Corrections to Scaling for Block Entanglement in Spin-1/2 XX Chains
P. Calabrese and F.H.L. Essler,
J. Stat. Mech. Theor. Exp., P08029 (2010).

76. Effects of Thermal Phase Fluctuations in a 2D Superconductor: an Exact Result for the Spectral Function
A.M. Tsvelik and F.H.L. Essler,
Phys. Rev. Lett. **105**, 027002 (2010).

75. Threshold Singularities in the One-Dimensional Hubbard Model,
F.H.L. Essler
Phys. Rev. B**81**, 205120 (2010).

74. Parity effects in the scaling of block entanglement in gapless spin chains
P. Calabrese, M. Campostrini, F.H.L. Essler and B. Nienhuis,
Phys. Rev. Lett. **104**, 095701 (2010).

73. Finite Temperature Dynamical Correlations in Massive Integrable Quantum Field Theories
F.H.L. Essler and R.M. Konik,
J. Stat. Mech. Theor. Exp., P09018 (2009).

72. Finite Temperature Dynamical Structure Factor of the Heisenberg-Ising Chain
A. J. A. James, W. D. Goetze and F. H. L. Essler,
Phys. Rev. B**79**, 214408 (2009).

71. On the spin-liquid phase of one dimensional spin-1 bosons
F.H.L. Essler, G.V. Shlyapnikov and A.M. Tsvelik,
J. Stat. Mech.: Theor. Exp., P02027 (2009).

70. Dynamical Correlations of the Spin-1/2 Heisenberg XXZ Chain in a Staggered Field
I. Kuzmenko and F.H.L. Essler,
Phys. Rev. **B 79**, 024402 (2009).

69. Slowest relaxation mode of the partially asymmetric exclusion process with open boundaries
J. de Gier and F.H.L. Essler,
J. Phys. **A 41**, 485002 (2008).

68. Finite Temperature Dynamical Structure Factor of Alternating Heisenberg Chains
A.J.A. James, F.H.L. Essler and R.M. Konik,
Phys. Rev. **B 78**, 094411 (2008).

67. ModellingMagnetic Fluctuations in the Stripe Ordered State
R.M. Konik, F.H.L. Essler and A.M. Tsvelik,
Phys. Rev. **B78**, 214509 (2008).

66. Local density of states of 1D Mott insulators and CDW states with a boundary
D. Schuricht, F.H.L. Essler, A. Jaefari and E. Fradkin,
Phys. Rev. Lett. **101**, 086403 (2008).

65. Finite Temperature Lineshapes in Gapped Quantum Spin Chains
F.H.L. Essler and R.M. Konik,
Phys. Rev. **B 78**, 100403(R) (2008).

64. A test of the g-ology model for one-dimensional interacting Fermi systems
A.V. Chubukov, D.L. Maslov and F.H.L. Essler,
Phys. Rev. **B 77**, 161102(R) (2008).

63. Dynamical Response Functions in the Quantum Ising Chain with a Boundary
D. Schuricht and F.H.L. Essler,
J. Stat. Mech.: Theor. Exp., P11004 (2007).

62. Luttinger liquid coupled to quantum spins: Flow equation approach to the Kondo necklace model
F.H.L. Essler, T. Kuzmenko and I.A. Zaliznyak,
Phys. Rev. B**76**, 115108 (2007).

61. Effective Forces Induced by Fluctuating Interface: Exact Results
    D.B. Abraham, F.H.L. Essler and A. Maciolek,
    Phys. Rev. Lett. **98**, 170602 (2007).

60. Dynamical Spin Response of Doped Two-Leg Hubbard-like Ladders
    F.H.L. Essler and R.M. Konik,
    Phys. Rev. **B75**, 144403 (2007).

59. Exact Spectral Gaps of the Asymmetric Exclusion Process with Open Boundaries
    J. deGier and F.H.L. Essler
    J. Stat. Mech.: Theor. Exp., P12011 (2006).

58. Thermodynamics of the one-dimensional Hubbard model in the spin-disordered regime
    S. Ejima, F.H.L. Essler and F. Gebhard,
    J. Phys. **A39**, 4845 (2006).

57. Quantum phase transition in the one-dimensional extended Peierls-Hubbard model
    H. Benthien, F.H.L. Essler and A. Grage,
    Phys. Rev. **B73**, 085105 (2006).

56. Bethe Ansatz Solution of the Partially Asymmetric Exclusion Process
    J. deGier and F.H.L. Essler,
    Phys. Rev. Lett. **95**, 240601 (2005).

55. Spin Dynamics of the Quasi Two Dimensional Spin-1/2 Quantum Magnet Cs_2CuCl_4
    M.J. Veillette, A.J.A. James and F.H.L. Essler,
    Phys. Rev. B**72**, 134429 (2005).

54. Continuum Limit of the Integrable sl(2/1) $3 - \bar{3}$ Superspin Chain
    F.H.L. Essler, H. Frahm and H. Saleur,
    Nucl. Phys. **B712**, 513 (2005).

53. A Strange Metal with a Small Fermi Surface and Strong Collective Excitations
    F.H.L. Essler and A.M. Tsvelik,
    Phys. Rev. B**71**, 195116 (2005).

52. Itineracy Effects on Spin Correlations in 1D Mott Insulators
    M.J. Bhaseen, F.H.L. Essler and A. Grage,
    Phys. Rev. B**71**, 020405(R)

51. Haldane-gap Chains in a Magnetic Field,
    F.H.L. Essler and I. Affleck,
    JSTAT P12006, (2004).

50. Resonant Inelastic X-Ray Scattering Study of Holon-Antiholon Continuum in SrCuO2,
    Y.-J. Kim, J.P. Hill, H. Benthien, F.H.L. Essler, E. Jeckelmann et. al.
    Phys. Rev. Lett. **92**, 134402 (2004).

49. Dynamical Structure Factor of the anisotropic Heisenberg chain in a transverse field,
    J.-S. Caux, F.H.L. Essler and U. Löw,
    Phys. Rev. B**68**, 134431 (2003).

48. Dynamical Structure factor in Cu Benzoate and other spin-1/2 antiferromagnetic chains,
    F.H.L. Essler, A. Furusaki and T. Hikihara,
    Phys. Rev. B**68**, 064410 (2003).

47. Polarization Dependence of spin excitations in BaCu2Si2O7,
    A. Zheludev, S. Raymond, L.-P. Regnault, F.H.L. Essler, K. Kakurai, T. Matsuda and K. Uchinokura,
    Phys. Rev. B**67**, 134406 (2003).

46. Finite Temperature Spectral Function of Mott Insulators and Charge Density Wave States,
F. H. L. Essler and A.M. Tsvelik,
Phys. Rev. Lett. **90**, 126401 (2003).

45. Dynamical density correlation function of 1D Mott insulators in a magnetic field,
D. Controzzi and F.H.L. Essler,
Phys. Rev. **B66**, 165112 (2002).

44. Quantum criticalities in a 2-leg antiferromagnetic s=1/2 ladder induced by a staggered magnetic field,
Y.-J. Wang, F.H.L. Essler, M. Fabrizio and A.A. Nersesyan ,
Phys. Rev. **B66**, 024412 (2002).

43. Weakly coupled one dimensional Mott insulators,
F. H. L. Essler and A.M. Tsvelik,
Phys. Rev. **B65**, 115117 (2002).

42. Spectral function of a quarter-filled one-dimensional CDW insulator
F. H. L. Essler and A.M. Tsvelik,
Phys. Rev. Lett. **88**, 096403 (2002).

41. Excitons in one dimensional Mott insulators
F. H. L. Essler, F. Gebhard and E. Jeckelmann,
Phys. Rev. **B64**, 5119 (2001).

40. Finite temperature dynamical magnetic susceptibility of quasi one dimensional, frustrated Heisenberg spin-1/2 antiferromagnets,
M. Bocquet, F.H.L. Essler, A.M. Tsvelik and A.O. Gogolin
Phys. Rev. **B64**, 4425 (2001).

39. Optical conductivity of one-dimensional Mott insulators
D. Controzzi, F.H.L. Essler and A.M. Tsvelik,
Phys. Rev. Lett. **86**, 680 (2001).

38. Optical conductivity of the half-filled Hubbard chain,
E. Jeckelmann, F. Gebhard and F. H. L. Essler,
Phys. Rev. Lett. **85**, 3910 (2000).

37. On the three-particle scattering continuum in quasi one dimensional integer spin Heisenberg magnets,
F.H.L. Essler,
Phys. Rev. **B62**, 3264 (2000).

36. A numerical method for detecting incommensurate correlations in the Heisenberg zigzag ladder
A. A. Aligia, C. D. Batista and F. H. L. Essler,
Phys. Rev. **B62**, 3259 (2000).

35. Exact solution of a partially asymmetric exclusion model using a deformed oscillator algebra,
R.A. Blythe, M.R. Evans, F. Colaiori and F.H.L. Essler,
J. Phys. **A33**, 2313 (2000).

34. The fate of spinons in spontaneously dimerized spin-1/2 ladders,
D. Allen, F.H.L. Essler and A.A. Nersesyan,
Phys. Rev. **B61**, 8871 (2000).

33. Thermodynamics and Excitations of the one-dimensional Hubbard Model,
T. Deguchi, F.H.L. Essler, F. Göhmann, V.E. Korepin, A. Klümper and K. Kusakabe,
Phys. Reports **331** 5, 197 (2000).

32. Density correlations in the half-filled Hubbard model
    F.H.L. Essler and H. Frahm,
    Phys. Rev. **B60**, 8540 (1999).

31. Roughening transition in an exactly solvable terrace-ledge-kink model
    D.B. Abraham, F.H.L. Essler and F.T. Latrémolière,
    Nucl. Phys. **B556**, 411 (1999).

30. Sine-Gordon low-energy effective theory for Copper Benzoate
    F.H.L. Essler,
    Phys. Rev. **B59**, 14376 (1999).

29. Formfactors in the half-filled Hubbard model
    F.H.L. Essler and V.E. Korepin,
    Phys. Rev. **B59**, 1734 (1999).

28. Incommensurate spin correlations in Heisenberg spin-1/2 zig-zag ladders
    A. A. Nersesyan, A. O. Gogolin and F. H. L. Essler,
    Phys. Rev. Lett. **81** (1998) 910.

27. Temperature Corrections to Conformal Field Theory
    F.H.L. Essler, V.E. Korepin and F.T. Latrémolière
    Europ. Phys. Jour. **B5**, 559 (1998).

26. Dynamical Magnetic Susceptibilities in Cu Benzoate
    F.H.L. Essler and A.M. Tsvelik,
    Phys. Rev. **B57** (1998) 10592.

25. Quasi-1D spin-1/2 Heisenberg magnets in their ordered phase: correlation functions
    F.H.L. Essler, A.M. Tsvelik and G. Delfino,
    Phys. Rev. **B56** (1997) 11001.

24. X-ray edge singularity in integrable models of correlated electrons
    F.H.L. Essler and H. Frahm, *Phys. Rev.* **B56** (1997) 6631.

23. Exact Solution of a t-J Chain with Impurity
    G. Bedürftig, F.H.L. Essler and H. Frahm,
    Nucl. Phys. **B489** (1997) 697.

22. Determinant Representation for a Quantum Correlation Function of the Lattice Sine-Gordon Model
    F.H.L. Essler, H. Frahm, A.R. Its and V.E. Korepin,
    J. Physics **A30** (1997) 219.

21. Integrable Impurity in the Supersymmetric t-J Model
    G. Bedürftig, F.H.L. Essler and H. Frahm,
    Phys. Rev. Lett. **77** (1996) 5098.

20. The Supersymmetric t-J Model with a Boundary
    F.H.L. Essler,
    J. Physics **A29** (1996) 6183.

19. Painlevé Transcendent Describes Quantum Correlation Function of the XXZ Antiferromagnet away from the free-fermion point
    F.H.L. Essler, H. Frahm, A.R. Its and V.E. Korepin,
    J. Physics **A29** (1996) 5619.

18. Representations of the Quadratic Algebra and Partially Asymmetric Diffusion with Open Bouedaries
    F.H.L. Essler and V. Rittenberg,
    J. Physics **A29** (1996) 3375.

17. Integro-Difference Equation for a correlation function of the spin 1/2 Heisenberg XXZ chain
    F.H.L. Essler, H. Frahm, A.R. Its and V.E. Korepin,
    Nucl. Phys. **B446** (1995) 448.

16. Determinant Representation for Correlation Functions of Spin 1/2 XXX and XXZ Heisenberg Magnets
    F.H.L. Essler, H. Frahm, A.G. Izergin and V.E. Korepin,
    Comm. Math. Phys. **174** (1995) 191.

15. A Note on Dressed S-Matrices in Models with Long-Range Interactions,
    F.H.L. Essler,
    Phys. Rev. **B51** (1995) 13357.

14. Correlation Function of the spin 1/2 XXX Antiferromagnet,
    V.E. Korepin, A.G. Izergin, F.H.L. Essler and D. Uglov,
    Phys. Lett. **190A** (1994) 182.

13. $SU(2) \times SU(2)$-Invariant Scattering Matrix of the Hubbard Model,
    F.H.L. Essler and V.E. Korepin,
    Nucl. Phys. **B426** (1994) 505.

12. Scattering Matrix and Excitation Spectrum of the Hubbard Model,
    F.H.L. Essler and V.E. Korepin,
    Phys. Rev. Lett. **72** (1994) 908.

11. Spectrum of Low-Lying Excitations in a Supersymmetric Extended Hubbard Model,
    F.H.L. Essler and V.E. Korepin,
    Int. J. Mod. Phys. **B8** (1994) 3243.

10. Exact solution of an electronic model of superconductivity I,
    F.H.L. Essler, V.E. Korepin, and K. Schoutens,
    Int. J. Mod. Phys. **B8** (1994) 3205.

9. Electronic model of superconductivity,
   F.H.L. Essler, V.E. Korepin, and K. Schoutens,
   Phys. Rev. Lett. **70** (1993) 73.

8. Higher conservation laws and Algebraic Bethe Ansätze for the supersymmetric t-J model,
   F.H.L. Essler and V.E. Korepin
   Phys. Rev. **B46** (1992) 9147.

7. New exactly solvable model of strongly correlated electrons motivated by high T_c superconductivity,
   F.H.L. Essler, V.E. Korepin, and K. Schoutens,
   Phys. Rev. Lett. **68** (1992) 2960.

6. Completeness of the SO(4)-extended Bethe Ansatz for the one-dimensional Hubbard model,
   F.H.L. Essler, V.E. Korepin, and K. Schoutens,
   Nucl. Phys. **B384** (1992) 431.

5. Fine structure of the Bethe Ansatz for the spin-$\frac{1}{2}$ Heisenberg XXX model,
   F.H.L. Essler, V.E. Korepin, and K. Schoutens,
   J. Physics **A25** (1992) 4115.

4. New eigenstates of the one-dimensional Hubbard model,
   F.H.L. Essler, V.E. Korepin, and K. Schoutens,
   Nucl. Phys. **B372** (1992) 559.

3. Complete solution of the one-dimensional Hubbard model,
   F.H.L. Essler, V.E. Korepin, and K. Schoutens,
   Phys. Rev. Lett. **67** (1991) 3848.

2. Covariant Quantization of the First-Ilk Superparticle,
   F.H.L.Essler, Machiko Hatsuda, Takashi Kimura, E.Laenen, A.Miković, W.Siegel,
   and J.P. Yamron,
   Nucl. Phys. **B364** (1991) 67.

1. BRST Operator for the First-Ilk Superparticle,
   F.H.L.Essler, E.Laenen, W.Siegel, and J.P. Yamron,
   Phys. Lett. **254B** (1991) 411.

Reviews, Reprint Volumes, Conference Proceedings etc:

13. Critical behavior of the extended Hubbard model with bond dimerization
    S. Ejima, F. Lange, F.H.L. Essler and H. Fehske,
    Physica B (2017).

12. Applications of Integrable Models in Condensed Matter and Cold Atom Physics
    F.H.L. Essler,
    Lecture notes for the 2016 Les Houches summer school on *Integrability: from statistical systems to gauge theory*.

11. Applications of Massive Integrable Quantum Field Theories to Problems in Condensed Matter Physics"
    F.H.L. Essler and R.M. Konik,
    150 pages, preprint cond-mat/0412421; published in the Ian Kogan Memorial Volume, World Scientific.

10. Dynamical Properties of one-dimensional Mott insulators
    D. Controzzi, F.H.L. Essler and A.M. Tsvelik,
    proceedings of the NATO ASI/EC summer school *New Theoretical Approaches to Strongly Correlated Systems*, Cambridge 2000; preprint `cond-mat/0011439`.

9. Sine-Gordon Quantum Magnets
   F.H.L. Essler,
   Int. J. Mod. Phys. **B13**, 2915 (1999).

8. Comment on the paper "Bound States in the One-dimensional Hubbard Model
   F.H.L. Essler, F. Göhmann and V.E. Korepin,
   preprint cond-mat/9806125

7. Massive Thirring Model
   V.E. Korepin and F.H.L. Essler,
   in *Encyclopaedia of Mathematics* Suppl. Vol. I, Ed. M. Hazewinkel, Kluwer Acad. Publ., p. 366, 1997.

6. Dual field approach to correlation functions in the Heisenberg XXZ spin chain,
   F.H.L. Essler and V.E. Korepin,
   in *Recent Progress in Statistical Mechanics and Quantum Field Theory*, eds P. Bouwknegt, P. Fendley, J. Minahan, D. Nemeschansky, K. Pilch, H. Saleur and N.P. Warner, World Scientific 1995.

5. Extended Hubbard Models, Eta-Pairing and Supersymmetry,
   F.H.L. Essler,
   Journ. Low Temp. Phys. **99** (1995) 415.

4. Exact Results on a Supersymmetric Extended Hubbard Model,
   F.H.L. Essler and V.E. Korepin,
   in *The Hubbard model; Its Physics and Mathematical Physics*, eds D. Baeriswyl, D.K. Campbell, J.M.P. Carmelo, F. Guinea and E. Louis, NATO ASI Series B **343**, Plenum 1995.

3. Symmetries of Strongly Correlated Electrons,
   V.E. Korepin and F.H.L. Essler,
   in *The Hubbard model; Its Physics and Mathematical Physics*, eds D. Baeriswyl, D.K. Campbell, J.M.P. Carmelo, F. Guinea and E. Louis, NATO ASI Series B **343**, Plenum 1995.

2. Exactly solvable models of strongly correlated electrons,
   reprint volume, eds. F.H.L. Essler and V.E. Korepin,
   World Scientific, 1994.

1. The Role of Symmetries in Systems of Strongly Correlated Electrons,
   F.H.L. Essler and V.E. Korepin,
   in *Correlation Effects in Low-Dimensional Electron Systems*, eds A. Okiji and N. Kawakami, Springer Series in Solid-State Sciences Vol. 118