

## List of Publications

### (a) Refereed Publications

#### Monograph

Fabian H. L. Essler, Holger Frahm, Frank Göhmann, Andreas Klümper, and Vladimir E. Korepin:  
“The One-Dimensional Hubbard Model”  
(Cambridge University Press, 2005)

#### Scientific Journals

87. Daniel Borcherding and Holger Frahm:  
“Condensation of non-Abelian  $SU(3)_{N_f}$  anyons in a one-dimensional fermion model”,  
*J. Phys. A: Math. Theor.* **51** (2018) 495002
86. Daniel Borcherding and Holger Frahm:  
“Signatures of non-Abelian anyons in the thermodynamics of an interacting fermion model”,  
*J. Phys. A: Math. Theor.* **51** (2018) 195001
85. Holger Frahm and Márcio J. Martins:  
“The fine structure of the finite-size effects for the spectrum of the  $OSp(n|2m)$  spin chain”,  
*Nucl. Phys. B* **930** (2018) 545-562
84. Peter E. Finch, Michael Flohr, and Holger Frahm:  
“ $\mathbb{Z}_n$  clock models and chains of  $so(n)_2$  non-Abelian anyons: symmetries,  
integrable points and low energy properties”,  
*J. Stat. Mech.* (2018) 023103
83. Holger Frahm and Konstantin Hobuß:  
“Spectral flow for an integrable staggered superspin chain”,  
*J. Phys. A: Math. Theor.* **50** (2017) 294002
82. Natalia Braylovskaya, Peter E. Finch, and Holger Frahm:  
“Exact solution of the  $D_3$  non-Abelian anyon chain”,  
*Phys. Rev. B* **94** (2016) 085138
81. Holger Frahm and Nikos Karaiskos:  
“Non-Abelian  $SU(3)_k$  anyons: inversion identities for higher rank face models”,  
*J. Phys. A: Math. Theor.* **48** (2015) 484001
80. Holger Frahm and Márcio J. Martins:  
“Finite-size effects in the spectrum of the  $OSp(3|2)$  superspin chain”,  
*Nucl. Phys. B* **894** (2015) 665-684

79. Peter E. Finch, Michael Flohr, and Holger Frahm:  
 "Integrable anyon chains: from fusion rules to face models to effective field theories",  
*Nucl. Phys. B* **889** (2014) 299-332
78. Holger Frahm and Nikos Karaiskos:  
 "Inversion identities for inhomogeneous face models",  
*Nucl. Phys. B* **887** (2014) 423-440
77. Peter E. Finch, Holger Frahm, Markus Lewerenz, Ashley Milsted, and Tobias J. Osborne:  
 "Quantum phases of a chain of strongly interacting anyons",  
*Phys. Rev. B* **90** (2014) 081111(R)
76. Holger Frahm and Alexander Seel:  
 "The staggered six-vertex model: conformal invariance and corrections to scaling",  
*Nucl. Phys. B* **879** [FS] (2014) 382-406
75. Nikos Karaiskos, André M. Grabinski, and Holger Frahm:  
 "Bethe ansatz solution of the small polaron model with non-diagonal boundary terms",  
*J. Stat. Mech.* (2013) P07009
74. Peter E. Finch and Holger Frahm:  
 "The  $D(D_3)$  anyon chain: integrable boundary conditions and excitation spectra",  
*New J. Phys.* **15** (2013) 053035
73. André M. Grabinski and Holger Frahm:  
 "Truncation identities for the small polaron fusion hierarchy",  
*New J. Phys.* **15** (2013) 043026
72. A. C. Tiegel, P. E. Dargel, K. A. Hallberg, H. Frahm, and T. Pruschke:  
 "Spin-spin correlations between two Kondo impurities coupled to an open Hubbard chain",  
*Phys. Rev. B* **87** (2013) 075122
71. Holger Frahm and Márcio J. Martins:  
 "Phase Diagram of an Integrable Alternating  $U_q[sl(2|1)]$  Superspin Chain",  
*Nucl. Phys. B* **862** [FS] (2012) 504–552
70. Peter E. Finch and Holger Frahm:  
 "Collective states of interacting  $D(D_3)$  non-Abelian anyons",  
*J. Stat. Mech.* (2012) L05001
69. Holger Frahm and Márcio J. Martins:  
 "Finite size properties of staggered  $U_q[sl(2|1)]$  superspin chains",  
*Nucl. Phys. B* **847** [FS] (2011) 220–246
68. Peter E. Finch, Holger Frahm, and John Links:  
 "Ground-state phase diagram for a system of interacting,  $D(D_3)$  non-Abelian anyons",  
*Nucl. Phys. B* **844** [FS] (2011) 129–145
67. Holger Frahm, Jan H. Grelík, Alexander Seel, and Tobias Wirth:  
 "Functional Bethe ansatz methods for the open XXX chain",  
*J. Phys. A: Math. Theor.* **44** (2011) 015001  
 ('Highlights of 2011' collection of *J. Phys. A: Math. Theor.*)

66. Luigi Amico, Holger Frahm, Andreas Osterloh, and Tobias Wirth:  
 “Separation of variables for integrable spin-boson models”,  
*Nucl. Phys. B* **839** [FS] (2010) 604–626
65. André M. Grabinski and Holger Frahm:  
 “Non-diagonal boundary conditions for  $\mathfrak{gl}(1|1)$  super spin chains”,  
*J. Phys. A: Math. Theor.* **43** (2010) 045207
64. Sönke Niekamp, Tobias Wirth, and Holger Frahm:  
 “The XXZ model with anti-periodic twisted boundary conditions”,  
*J. Phys. A: Math. Theor.* **42** (2009) 195008
63. Holger Frahm, Alexander Seel, and Tobias Wirth:  
 “Separation of variables in the open XXX chain”,  
*Nucl. Phys. B* **802** [FS] (2008) 351–367
62. Holger Frahm and Temo Vekua:  
 “The Mott metal-insulator transition in the 1D Hubbard model in an external magnetic field”,  
*J. Stat. Mech.* (2008) P01007
61. F. Schulze-Wischeler, U. Zeitler, C. v. Zobeltitz, F. Hohls, D. Reuter, A. D. Wieck, H. Frahm, and R. J. Haug:  
 “Measurement of the specific heat of a fractional quantum Hall system”,  
*Phys. Rev. B* **76** (2007) 153311
60. Luigi Amico, Holger Frahm, Andreas Osterloh, and G. A. P. Ribeiro:  
 “Integrable spin-boson models descending from rational six-vertex model”,  
*Nucl. Phys. B* **787** [FS] (2007) 283–300
59. Holger Frahm and Guillaume Palacios:  
 “Interplay between a quantum impurity and a boundary field in the SUSY  $t$ - $J$  model”,  
*J. Stat. Mech.* (2007) P05006
58. Holger Frahm, Carsten v. Zobeltitz, Niels Maire, and Rolf J. Haug:  
 “Fermi edge singularities in transport through quantum dots”,  
*Phys. Rev. B* **74** (2006) 035329
57. Holger Frahm and Guillaume Palacios:  
 “Anderson-like impurity in the one-dimensional  $t$ - $J$  model: formation of local states and magnetic behaviour”,  
*Phys. Rev. B* **73** (2006) 214419
56. Holger Frahm and Guillaume Palacios:  
 “Correlation functions of one-dimensional Bose-Fermi mixtures”,  
*Phys. Rev. A* **72** (2005) 061604(R)
55. Frank Göhmann, Michael Bortz, and Holger Frahm:  
 “Surface free energy for systems with integrable boundary conditions”,  
*J. Phys. A: Math. Gen.* **38** (2005) 10879–10891
54. Fabian H. L. Essler, Holger Frahm, and Hubert Saleur:  
 “Continuum limit of the integrable  $sl(2|1)$  3– $\bar{3}$  superspin chain”,  
*Nucl. Phys. B* **712** [FS] (2005) 513–572

53. Holger Frahm and Martin Stahlsmeier:  
 "Electronic Ladders with  $SO(5)$  Symmetry: Phase Diagrams and Correlations at half-filling",  
*Phys. Rev. B* **63** (2001) 125109
52. Isabella Hapke-Wurst, Ulrich Zeitler, Holger Frahm, A. G. M. Jansen, Rolf J. Haug, and Klaus Pierz:  
 "Magnetic-field-induced singularities in spin dependent tunneling through InAs quantum dots",  
*Phys. Rev. B* **62** (2000) 12621–12624
51. Holger Frahm and Nikita A. Slavnov:  
 "Magnetic properties of doped Heisenberg chains",  
*Nucl. Phys. B* **575** [FS] (2000) 485–503
50. Holger Frahm and Constantin Sobiella:  
 "Doping-induced magnetization plateaus",  
*Phys. Rev. Lett.* **83** (1999) 5579–5582
49. Holger Frahm and Anjan Kundu:  
 "Phase diagram of an exactly solvable  $t$ – $J$  ladder model",  
*J. Phys. Condensed Matter* **11** (1999) L557–L562
48. Holger Frahm:  
 "Doped Heisenberg chains: Spin- $S$  generalizations of the supersymmetric  $t$ – $J$  model",  
*Nucl. Phys. B* **559** [FS] (1999) 613–636
47. Fabian H. L. Eßler and Holger Frahm:  
 "Density correlations in the half-filled Hubbard model",  
*Phys. Rev. B* **60** (1999) 8540–8542
46. Gerald Bedürftig and Holger Frahm:  
 "Tunneling singularities in the open Hubbard chain",  
*Physica E* **4** (1999) 246–255
45. Holger Frahm and Claus Rödenbeck:  
 "A generalized spin ladder in a magnetic field",  
*Eur. Phys. J. B* **10** (1999) 409–414
44. Gerald Bedürftig and Holger Frahm:  
 "Open  $t$ – $J$  chain with boundary impurities",  
*J. Phys. A: Math. Gen.* **32** (1999) 4585–4591
43. Holger Frahm and Nikita A. Slavnov:  
 "New solutions to the reflection equation and the projecting method",  
*J. Phys. A: Math. Gen.* **32** (1999) 1547–1555
42. Holger Frahm and Martin Stahlsmeier:  
 "Spinon statistics in integrable spin- $S$  Heisenberg chains",  
*Phys. Lett. A* **250** (1998) 293–299
41. Holger Frahm and Sergey I. Matveenko:  
 "Correlation functions in the Calogero–Sutherland model with open boundaries",  
*Eur. Phys. J. B* **5** (1998) 671–675
40. Gerald Bedürftig, Berthold Brendel, Holger Frahm, and Reinhard M. Noack:  
 "Friedel oscillations in the open Hubbard chain",  
*Phys. Rev. B* **58** (1998) 10225–10235

39. Holger Frahm and Sascha Ledowski:  
 "Boundary states and edge singularities in the degenerate Hubbard chain",  
*J. Phys. Condensed Matter* **10** (1998) 8829–8841
38. Holger Frahm, Markus P. Pfannmüller, and Alexei M. Tsvelik:  
 "Doping of a spin-1 chain: an integrable model",  
*Phys. Rev. Lett.* **81** (1998) 2116–2119
37. Holger Frahm and Andrei A. Zvyagin:  
 "The open spin chain with impurity: an exact solution",  
*J. Phys. Condensed Matter* **9** (1997) 9939–9946
36. Fabian H. L. Eßler and Holger Frahm:  
 "X-ray edge singularity in integrable lattice models of correlated electrons",  
*Phys. Rev. B* **56** (1997) 6631–6641
35. Holger Frahm and John Schliemann:  
 "Variational states for the spin-Peierls system",  
*Phys. Rev. B* **56** (1997) 5359–5365
34. Markus P. Pfannmüller and Holger Frahm:  
 "A new algebraic Bethe Ansatz for  $gl(2,1)$  invariant vertex models",  
*J. Phys. A: Math. Gen.* **30** (1997) L543–L548
33. Holger Frahm and Claus Rödenbeck:  
 "Properties of the chiral spin liquid state in generalized spin ladders",  
*J. Phys. A: Math. Gen.* **30** (1997) 4467–4479
32. Gerald Bedürftig and Holger Frahm:  
 "Spectrum of boundary states in the open Hubbard chain",  
*J. Phys. A: Math. Gen.* **30** (1997) 4139–4149
31. Gerald Bedürftig, Fabian H. L. Eßler, and Holger Frahm:  
 "Exact solution of a  $t$ - $J$  chain with impurity",  
*Nucl. Phys. B* **489** [FS] (1997) 697–736
30. Holger Frahm and Andrei A. Zvyagin:  
 "Nonlinear boundary oscillations in strongly correlated electron quantum wires",  
*Phys. Rev. B* **55** (1997) 1341–1344
29. Fabian H. L. Eßler, Holger Frahm, Alexander R. Its, and Vladimir E. Korepin:  
 "Determinant representation for a quantum correlation function of the lattice sine-Gordon model",  
*J. Phys. A: Math. Gen.* **30** (1997) 219–244
28. Gerald Bedürftig, Fabian H. L. Eßler, and Holger Frahm:  
 "Integrable impurity in the supersymmetric  $t$ - $J$  model",  
*Phys. Rev. Lett.* **77** (1996) 5098–5101; *ibid.* **78** (1997) 1397(E)
27. Fabian H. L. Eßler, Holger Frahm, Alexander R. Its, and Vladimir E. Korepin:  
 "Painlevé transcendent describes quantum correlation function of the XXZ antiferromagnet  
 away from the free-fermion point",  
*J. Phys. A: Math. Gen.* **29** (1996) 5619–5626

26. Markus P. Pfannmüller and Holger Frahm:  
 "Algebraic Bethe Ansatz for  $gl(2,1)$  invariant 36-vertex models",  
*Nucl. Phys. B* **479** [FS] (1996) 575–593
25. Holger Frahm and Claus Rödenbeck:  
 "Integrable models of coupled Heisenberg chains",  
*Europhys. Lett.* **33** (1996) 47–52
24. Holger Frahm and Markus P. Pfannmüller:  
 "On the Hubbard model in the limit of vanishing interaction",  
*Phys. Lett. A* **204** (1995) 347–352
23. Gerald Bedürftig and Holger Frahm:  
 "Thermodynamics of an integrable model for electrons with correlated hopping",  
*J. Phys. A: Math. Gen.* **28** (1995) 4453–4468
22. Fabian H. L. Eßler, Holger Frahm, Alexander R. Its, and Vladimir E. Korepin:  
 "Integro-difference equation for a correlation function of the spin- $\frac{1}{2}$  Heisenberg XXZ chain",  
*Nucl. Phys. B* **446** [FS] (1995) 448–460
21. Gerald Bedürftig and Holger Frahm:  
 "Comment on 'Model of Fermions with Correlated Hopping (Integrable Cases)'",  
*Phys. Rev. Lett.* **74** (1995) 5284(C)
20. Fabian H. L. Eßler, Holger Frahm, Anatoli G. Izergin, and Vladimir E. Korepin:  
 "Determinant representation for correlation functions of spin- $\frac{1}{2}$  XXX and XXZ Heisenberg chains",  
*Commun. Math. Phys.* **174** (1995) 191–214
19. Holger Frahm and Vladimir I. Inozemtsev:  
 "New family of solvable 1D Heisenberg models",  
*J. Phys. A: Math. Gen.* **27** (1994) L801–L807
18. Holger Frahm, Alexander R. Its, and Vladimir E. Korepin:  
 "Differential equation for a correlation function of the spin- $\frac{1}{2}$  Heisenberg chain",  
*Nucl. Phys. B* **428** [FS] (1994) 694–710
17. Holger Frahm:  
 "Spectrum of a spin chain with inverse square exchange",  
*J. Phys. A: Math. Gen.* **26** (1993) L473–L479
16. Holger Frahm and Andreas Schadschneider:  
 "Critical exponents of the degenerate Hubbard model",  
*J. Phys. A: Math. Gen.* **26** (1993) 1463–1480
15. Holger Frahm:  
 "Integrable spin- $\frac{1}{2}$  XXZ Heisenberg chain with competing interactions",  
*J. Phys. A: Math. Gen.* **25** (1992) 1417–1427
14. Holger Frahm and H. B. Thacker:  
 "Corner transfer matrix eigenstates for the six-vertex model",  
*J. Phys. A: Math. Gen.* **24** (1991) 5587–5603
13. Holger Frahm, Salman Ullah, and Alan T. Dorsey:  
 "Flux dynamics and growth of the superconducting phase",  
*Phys. Rev. Lett.* **66** (1991) 3067–3070

12. Holger Frahm and V. E. Korepin:  
 "Correlation functions of the one-dimensional Hubbard model in a magnetic field",  
*Phys. Rev. B* **43** (1991) 5653–5662  
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11. Holger Frahm and V. E. Korepin:  
 "Critical exponents for the one-dimensional Hubbard model",  
*Phys. Rev. B* **42** (1990) 10553–10565
10. Holger Frahm and Nai-Chang Yu:  
 "Finite size effects in the integrable XXZ Heisenberg model with arbitrary spin",  
*J. Phys. A: Math. Gen.* **23** (1990) 2115–2132
9. Holger Frahm, Nai-Chang Yu, and Michael Fowler:  
 "The integrable XXZ Heisenberg model with arbitrary spin: Construction of the Hamiltonian, the ground-state configuration and conformal properties",  
*Nucl. Phys. B* **336** (1990) 396–434
8. Michael Fowler and Holger Frahm:  
 "Quantization conditions for the periodic Toda chain: Inadequacy of Bethe ansatz methods",  
*Phys. Rev. B* **39** (1989) 11800–11809
7. H. Frahm and J. A. Hołyst:  
 "On spin squeezed states and their application to semiclassical kink dynamics in magnetic chains",  
*J. Phys. Condensed Matter* **1** (1989) 3083–3094
6. H. Frahm and H. J. Mikeska:  
 "Frahm and Mikeska reply",  
*Phys. Rev. Lett.* **61** (1988) 378(C)
5. H. Frahm and H. J. Mikeska:  
 "Quantum suppression of irregularity in the spectral properties of the kicked rotator",  
*Phys. Rev. Lett.* **60** (1988) 3–6
4. H. Hasegawa, H. J. Mikeska, and H. Frahm:  
 "Stochastic formulation of energy level statistics",  
*Phys. Rev. A* **38** (1988) 395–399
3. H. J. Mikeska and H. Frahm:  
 "The soliton contribution to the specific heat of CsNiF<sub>3</sub>: quantum effects and out-of-plane fluctuations",  
*J. Phys. C: Solid State Phys.* **19** (1986) 3203–3209
2. H. Frahm and H. J. Mikeska:  
 "Levelstatistics and stochasticity in a driven quantum system",  
*Z. Phys. B – Condensed Matter* **65** (1986) 249–253
1. H. Frahm and H. J. Mikeska:  
 "On the dynamics of a quantum system which is classically chaotic",  
*Z. Phys. B – Condensed Matter* **60** (1985) 117–126

## Conference Proceedings

17. Peter E. Finch and Holger Frahm:  
“Collective states of  $D(D_3)$  non-Abelian anyons”,  
in *Low Dimensional Physics and Gauge Principles*, eds. V. G. Gurzadyan, A. Klümper, and A. G. Sedrakyan, (World Scientific, Singapore, 2013), pp. 134–145
16. Holger Frahm, Jan H. Grelük, and Alexander Seel:  
“Persistent currents in open spin chains”,  
*Theor. Math. Phys.* **171** (2012) 715–724 [*Teoret. Mat. Fiz.* **171** (2012) 340–352]
15. Holger Frahm and Guillaume Palacios:  
“Integrable Anderson-like impurity in the supersymmetric  $t-J$  model”,  
*Theor. Math. Phys.* **150** (2007) 288–300 [*Teoret. Mat. Fiz.* **150** (2007) 338–352]
14. Holger Frahm, Fabian H. L. Essler, and Hubert Saleur:  
“The integrable  $sl(2|1)$  superspin chain and the spin quantum Hall effect”,  
*Adv. in Solid State Phys.* **45** (2005) 185–196
13. U. Zeitler, I. Hapke-Wurst, D. Sarkar, R. J. Haug, H. Frahm, K. Pierz, and A. G. M. Jansen:  
“High magnetic fields in semiconductor nanostructures: spin effects in single InAs quantum dots”,  
*Adv. in Solid State Phys.* **42** (2002) 3–12
12. J. M. Meyer, I. Hapke-Wurst, U. Zeitler, H. Frahm, A. G. M. Jansen, R. J. Haug, and K. Pierz:  
“Spin effects in InAs quantum dots: Tunneling in tilted magnetic fields”,  
in *Proceedings of the 25th International Conference on the Physics of Semiconductors*, Part 1,  
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11. I. Hapke-Wurst, U. Zeitler, H. Frahm, A. G. M. Jansen, R. J. Haug, and K. Pierz:  
“Singularities in Tunneling through InAs Dots in High Magnetic Fields”,  
in *Proceedings of the 14th International Conference on High Magnetic Fields in Semiconductor Physics*, Matsue, Japan, September 24–29, 2000, *Physica B: Condensed Matter* **298** (2001) 272–276
10. I. Hapke-Wurst, U. Zeitler, H. Frahm, A. G. M. Jansen, R. J. Haug, and K. Pierz:  
“Singularities in magneto-tunneling through InAs quantum dots”,  
in *Proceedings of the International Conference on Semiconductor Quantum Dots*, Munich, Germany, July 31 - August 3, 2000, *physica status solidi (b)* **224** (2001) 689–692
9. Holger Frahm and Markus P. Pfannmüller:  
“Generalizations of the supersymmetric  $t-J$  model”,  
*J. Math. Sci.* **104** (2001) 1144–1150 [*Zap. Nauch. Semin. POMI* **251** (1998) 94–104]
8. Holger Frahm, Alexander R. Its, and Vladimir E. Korepin:  
“An operator-valued Riemann-Hilbert problem associated with the XXX model”,  
in *Symmetries and Integrability of Difference Equations*, eds. Decio Levi, Luc Vinet, and Pavel Winternitz, *CRM Proceedings and Lecture Notes* **9** (1996) 133–142
7. Holger Frahm and Andreas Schadschneider:  
“On the Bethe Ansatz soluble degenerate Hubbard model”,  
in *The Hubbard Model: Its Physics and Mathematical Physics*, eds. D. Baeriswyl, D. K. Campbell, J. M. P. Carmelo, F. Guinea, and E. Louis (Plenum, New York, 1995), pp. 21–28

6. Holger Frahm and V. E. Korepin:  
 "Critical exponents in the one-dimensional Hubbard model",  
*Int. J. Mod. Phys. B* **8** (1994) 403–415; see also in: *Quantum Field Theory and Condensed Matter Physics*, eds. S. Randjbar-Daemi and Yu Lu, (World Scientific, Singapore, 1994), pp. 57–69
5. Holger Frahm:  
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*Contemp. Math.* **122** (1991) 41–45
4. H. J. Mikeska and H. Frahm:  
 "Towards a quantitative theory of solitons in one-dimensional magnets: Quantum effects, out-of-plane fluctuations and the specific heat",  
 in *Nonlinearity in Condensed Matter*, eds. A. R. Bishop, D. K. Campbell, P. Kumar, and S. E. Trullinger, (Springer Verlag, Berlin, 1987), pp. 53–58
3. H. J. Mikeska and H. Frahm:  
 "The Kicked Quantum Spin: A Model System for Quantum Chaos",  
 in *Magnetic Excitations and Fluctuations II*, eds. U. Balucani, S. W. Lovesey, M. G. Rasetti, and V. Tognetti, *Springer Proceedings in Physics* **23** (1987) 75–78
2. H. J. Mikeska and H. Frahm:  
 "Chaos in a driven quantum spin system",  
 in *Chaos, Noise and Fractals*, eds. E. R. Pike and L. A. Lugiato, (Adam Hilger, Bristol, 1987), pp. 117–136
1. H. Frahm and H. J. Mikeska:  
 "Classical stochasticity and quantum uncertainty in a simple quantum spin model",  
*J. Magn. Magn. Mater.* **54–57** (1986) 1203–1204

## (b) Other Publications

Holger Frahm:  
 "Lösbare Modelle und konforme Invarianz: Kritische Eigenschaften korrelierter Elektronen in einer Dimension",  
*Jahrbuch der Akademie der Wissenschaften in Göttingen* (1997) 52–63

Holger Frahm:  
 "Eindimensionale Quantensysteme – Untersuchungen zu exakter Lösbarkeit und kritischen Phänomenen",  
 Habilitationsschrift, Universität Hannover (1992)

Holger Frahm:  
 "Chaos in einem getriebenen quantenmechanischen Spin-System",  
 Dissertation, Universität Hannover (1987)

Holger Frahm:  
 "Chaos in magnetischen Systemen",  
 Diplomarbeit, Universität Hannover (1984)

For an up-to-date list see <https://www.itp.uni-hannover.de/frahm.html>