List of Publications

Urs M. Heller

I. Publications in Refereed Journals

1. U.M. Heller, String Tension in $2+1$ Dimensional Compact Lattice QCD: Weak and Strong Coupling Results; a Variational Calculation, *Phys. Rev.* **D23**, 2357 (1981).
2. G. Bhanot, U.M. Heller and H. Neuberger, The Quenched Eguchi-Kawai Model, *Phys. Lett.* **113B**, 47 (1982).
3. G. Bhanot, U.M. Heller and H. Neuberger, A Phase Transition in the Quenched Eguchi-Kawai Model, *Phys. Lett.* **115B**, 237 (1982).
4. R. Dashen, U.M. Heller and H. Neuberger, Analytical Results for Mixed Action $SU(2)$ Lattice Gauge Theory, *Nucl. Phys.* **B215 [FS7]**, 360 (1983).
5. U.M. Heller and H. Neuberger, The Role of Gauge Theories in Constructing Reduced Models at Infinite N, *Nucl. Phys.* **B207**, 399 (1982).
6. U.M. Heller and H. Neuberger, Reduced Quenched Chiral Models, *Phys. Rev. Lett.* **49**, 621 (1982).
7. U.M. Heller and N. Seiberg, A Method for Numerical Simulations of Metastable States, *Phys. Rev.* **D27**, 2980 (1983).
8. U.M. Heller and H. Neuberger, Comments on the Reduction of Large N Chiral Models, *Phys. Rev.* **D30**, 498 (1984).
9. H. Hamber and U.M. Heller, Glueball Mass Estimates in Lattice QCD, *Phys. Rev.* **D29**, 928 (1984).
10. G. Bhanot, U.M. Heller and I.O. Stamatescu, A New Method for Fermion Monte Carlo, *Phys. Lett.* **129B**, 440 (1983).
11. S. Gupta and U.M. Heller, A Monte Carlo Study of the $SU(3)$ Adjoint Higgs Model, *Phys. Lett.* **138B**, 171 (1984).
12. A. Hasenfratz, P. Hasenfratz, U.M. Heller and F. Karsch, Improved Monte Carlo Renormalization Group Methods, *Phys. Lett.* **140B**, 76 (1984).
13. A Hasenfratz, P. Hasenfratz, U.M. Heller and F. Karsch, Rotational Symmetry of the $SU(3)$ Potential, *Z. Phys.* **C25**, 191 (1984).
14. A. Hasenfratz, P. Hasenfratz, U.M. Heller and F. Karsch, The β-Function of the $SU(3)$ Wilson-Action, *Phys. Lett.* **143B**, 193 (1984).

15. U.M. Heller and F. Karsch, One Loop Perturbative Calculation of Wilson Loops on Finite Lattices, *Nucl. Phys.* **B251 [FS13]**, 254 (1985).

16. U.M. Heller and F. Karsch, Finite Temperature $SU(2)$ Lattice Gauge Theory with Dynamical Fermions, *Nucl. Phys.* **B258**, 29 (1985).

17. K.C. Bowler, A. Hasenfratz, P. Hasenfratz, U.M. Heller, F. Karsch, R.D. Kenway, H. Meyer-Ortmanns, I. Montvay, G.S. Pawley and D.J. Wallace, Monte Carlo Renormalization Group Studies of $SU(3)$ Lattice Gauge Theory, *Nucl. Phys.* **B257 [FS14]**, 155 (1985).

18. U.M. Heller and F. Karsch, The $SU(2)$ β-Function with and without Dynamical Fermions, *Phys. Rev. Lett.* **54**, 1765 (1985).

19. K.C. Bowler, F. Gutbrod, P. Hasenfratz, U.M. Heller, F. Karsch, R.D. Kenway, I. Montvay, G.S. Pawley, J. Smit and D.J. Wallace, The β-Function and Potential at $\beta = 6.0$ and 6.3 in $SU(3)$ Gauge Theory, *Phys. Lett.* **163B**, 367 (1985).

20. U.M. Heller, Deconfinement in $SU(2)$ Gauge Theory with Fermions of Intermediate Mass, *Phys. Lett.* **163B**, 203 (1985).

21. P.H. Damgaard and U.M. Heller, Higgs and Confinement Phases in the Fundamental $SU(2)$ Higgs Model, *Phys. Lett.* **164B**, 121 (1985).

22. P.H. Damgaard and U.M. Heller, Deconfinement in the Fundamental $SU(2)$ Higgs Model, *Phys. Lett.* **171B**, 442 (1986).

23. A. Gocksch and U.M. Heller, Improved Blockspin Transformations, Redundant Operators and all that, *Nucl. Phys.* **B275 [FS17]**, 219 (1986).

24. R.V. Gavai, A. Gocksch and U.M. Heller, On Assessing the Merits and Shortcomings of the Pseudo-Fermion Method, *Nucl. Phys.* **B283**, 381 (1987).

25. K.C. Bowler, A. Hasenfratz, P. Hasenfratz, U.M. Heller, F. Karsch, R.D. Kenway, G.S. Pawley and D.J. Wallace, The $SU(3)$ β-Function at Large β, *Phys. Lett.* **179B**, 375 (1986).

26. P.H. Damgaard and U.M. Heller, The Fundamental $SU(2)$ Higgs Model at Finite Temperature, *Nucl. Phys.* **B294**, 253 (1987).

27. R.V. Gavai, A. Gocksch and U.M. Heller, The QCD Glueballs in the Presence of Dynamical Fermions in a Small Periodic Box, *Phys. Lett.* **190B**, 182 (1987).

28. U.M. Heller, Symmetry Restoration at Finite Temperature, *Phys. Lett.* **191B**, 109 (1987).

29. P.H. Damgaard and U.M. Heller, Search for Symmetry Restoration in the Fundamental $SU(2)$ Higgs Model, *Nucl. Phys.* **B304**, 63 (1988).

30. A. Gocksch and U.M. Heller, A Lattice Calculation of Glueball Meson Mixing, *Phys. Rev. Lett.* **60**, 1809 (1988).

31. P.H. Damgaard and U.M. Heller, Observation of the Meissner Effect in a Lattice Higgs Model, *Phys. Rev. Lett.* **60**, 1246 (1988).

32. A. Gocksch, U.M. Heller and P. Rossi, Quenched Hadronic Screening Lengths at High Temperature, *Phys. Lett.* **205B**, 334 (1988).

33. U.M. Heller and H. Neuberger, The Finite Size Effects of Goldstone Bosons in Monte-Carlo Simulations, *Phys. Lett.* **207B**, 189 (1988).

34. U.M. Heller, Monte Carlo Renormalization Group Investigation of the Two-dimensional $O(4)$ Sigma Model, *Phys. Rev. Lett.* **60**, 2235 (1988).

35. P.H. Damgaard and U.M. Heller, The $U(1)$ Higgs Model in an External Electromagnetic Field, *Nucl. Phys.* **B309**, 625 (1988).

36. U.M. Heller, More on the Two-dimensional $O(4)$ Sigma Model, *Phys. Rev.* **D38**, 3834 (1988).

37. U.M. Heller and H. Neuberger, Overrelaxation and Mode Coupling in Sigma Models, *Phys. Rev.* **D39**, 616 (1989).

38. P.H. Damgaard and U.M. Heller, Vortices and the Phase Structure of the Multiply-Charged $U(1)$ Higgs Model, *Nucl. Phys.* **B324**, 532 (1989).

39. G. Bhanot, K. Bitar, U.M. Heller and H. Neuberger, ϕ^4 on F_4: Analytical Results, *Nucl. Phys.* **B343**, 467 (1990).

40. J. Berlin, A. Hasenfratz, U.M. Heller and M. Klomfass, Phase Structure of a $Z(2)$ Scalar-Fermion Model, *Phys. Lett.* **B249**, 485 (1990).

41. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Quantum Chromodynamics at $6/g^2 = 5.6$, *Phys. Rev. Lett.* **65**, 2106 (1990).

42. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Hadron Spectrum in QCD at $6/g^2 = 5.6$, *Phys. Rev.* **D42**, 3794 (1990).

43. G. Bhanot, K. Bitar, U.M. Heller and H. Neuberger, ϕ^4 on F_4: Numerical Results, *Nucl. Phys.* **B353**, 551 (1991).

44. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Hadron Thermodynamics with Wilson Quarks, *Phys. Rev.* **D43**, 2396 (1991).

45. M. Klomfass, U.M. Heller and H. Flyvbjerg, Interpolating Between $O(N)$-symmetric σ-Models with $N = 1, 2, 3$, *Phys. Lett.* **B258**, 386 (1991).

46. M. Klomfass, U.M. Heller and H. Flyvbjerg, Interpolating between Ising, XY and non-linear σ-Models, *Nucl. Phys.* **B360**, 264 (1991).

47. U.M. Heller, Yukawa Models with Staggered Fermions in a $1/d$ Expansion at Strong Yukawa Coupling, *Phys. Lett.* **B260**, 165 (1991).

48. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", On Glueballs and Topology in Lattice QCD with two Light Flavors, *Phys. Rev.* **D44**, 2090 (1991).

49. S. Aoki, *et al.*, "The QCD Teraflop Collaboration", Physics Goals of the QCD Teraflop Project, *Int. J. of Mod. Physics* **C2**, 829 (1991).

50. U.M. Heller, H. Neuberger and P. Vranas, How to Put a Heavier Higgs on the Lattice, *Phys. Lett.* **B283**, 335 (1992).

51. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Hadron Spectrum in QCD with Valence Wilson Fermions and Dynamical Staggered Fermions at $6/g^2 = 5.6$, *Phys. Rev.* **D46**, 2169 (1992).

52. R.V. Gavai, U.M Heller, F. Karsch, T. Neuhaus and B. Plache, A Lower Bound on $T_{\rm SR}/m_{\rm H}$ in the $O(4)$ Model on Anisotropic Lattices, *Phys. Lett.* **B294**, 84 (1992).

53. M.W. Hecht, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Comparison of Lattice Coulomb Gauge Wave Functions in Quenched Approximation and with Dynamical Fermions, *Phys. Rev.* **D47**, 285 (1993).

54. U.M. Heller, H. Neuberger and P. Vranas, Large N Analysis of the Higgs Mass Triviality Bound, *Nucl. Phys.* **B399**, 271 (1993).

55. J. Fingberg, U.M. Heller and F. Karsch, Scaling and Asymptotic Scaling in the $SU(2)$ Gauge Theory, *Nucl. Phys.* **B392**, 493 (1993).

56. S. Gottlieb, *et al.*, "The High Temperature Monte Carlo Grand Challenge Collaboration", Thermodynamics of Lattice QCD with two Light Quarks on a $16^3 \times 8$ Lattice, *Phys. Rev.* **D47**, 3619 (1993).

57. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Simple Hadronic Matrix Elements with Wilson Valence Quarks and Dynamical Staggered Fermions at $6/g^2 = 5.6$, *Phys. Rev.* **D48**, 370 (1993).

58. U.M. Heller, M. Klomfass, H. Neuberger and P. Vranas, Numerical Analysis of the Higgs Mass Triviality Bound, *Nucl. Phys.* **B405**, 555 (1993).

59. G.S. Bali, J. Fingberg, U.M. Heller, F. Karsch and K. Schilling, The Spatial String Tension in the Deconfined Phase of the (3+1)-Dimensional SU(2) Gauge Theory, *Phys. Rev. Lett.* **71**, 3059 (1993).

60. P.H. Damgaard and U.M. Heller, On Spin and Matrix Models in the Complex Plane, *Nucl. Phys.* **B410**, 494 (1993).

61. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Hadron Spectrum and Matrix Elements in QCD with Dynamical Wilson Fermions at $6/g^2 = 5.3$, *Phys. Rev.* **D49**, 3546 (1994).

62. B. Grossmann, S. Gupta, F. Karsch and U.M. Heller, Glueball-like Screening Masses in pure SU(3) at Finite Temperatures, *Nucl. Phys.* **B417**, 289 (1994).

63. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Effects of Spatial Size, Lattice Doubling and Source Operators on the Hadron Spectrum with Dynamical Staggered Quarks at $6/g^2 = 5.6$, *Phys. Rev.* **D49**, 6026 (1994).

64. U.M. Heller, K.M. Bitar, R.G. Edwards and A.D. Kennedy, The Heavy Quark Potential in QCD with 2 Flavors of Dynamical Quarks, *Phys. Lett.* **B335**, 71 (1994).

65. J. Fingberg, U.M. Heller and V. Mitrjushkin, Scaling in the Positive Plaquette Model and Universality in SU(2) Lattice Gauge Theory, *Nucl. Phys.* **B435**, 311 (1995).

66. T. Blum, C. DeTar, Urs M. Heller, Leo Kärkkäinen, K. Rummukainen and D. Toussaint, Thermal Phase Transition in Mixed Action SU(3) Lattice Gauge Theory and Wilson Fermion Thermodynamics, *Nucl. Phys.* **B442**, 301 (1995).

67. M. Wingate, T. DeGrand, S. Collins and Urs M. Heller, From Spectroscopy to the Strong Coupling Constant with Heavy Wilson Quarks, *Phys. Rev.* **D52**, 307 (1995).

68. M. Wingate, T. DeGrand, S. Collins and Urs M. Heller, Properties of the a_1 Meson from Lattice QCD, *Phys. Rev. Lett.* **74**, 4596 (1995).

69. Urs M. Heller, SU(2) Lattice Gauge Theory with Logarithmic Action: Scaling and Universality, *Nucl. Phys.* **B451**, 469 (1995).

70. Urs M. Heller, F. Karsch and J. Rank, The Gluon Propagator at High Temperature, *Phys. Lett.* **B355**, 511 (1995).

71. Urs M. Heller, SU(3) Lattice Gauge Theory in the Fundamental–Adjoint Plane and Scaling along the Wilson axis, *Phys. Lett.* **B362**, 123 (1995).

72. K.M. Bitar, R.G. Edwards, U.M. Heller and A.D. Kennedy, QCD β-function with two Flavors of Dynamical Wilson Fermions, *Phys. Rev.* **D54**, 3546 (1996).

73. S. Collins, U.M. Heller, J.H. Sloan, J. Shigemitsu, A. Ali-Khan and C.T.H. Davis, B Spectroscopy from NRQCD with Dynamical Fermions, *Phys. Rev.* **D54**, 5777 (1997).

74. S. Collins, U.M. Heller, J.H. Sloan, J. Shigemitsu, A. Ali-Khan and C.T.H. Davis, B Decay Constants from NRQCD with Dynamical Fermions, *Phys. Rev.* **D55**, 1630 (1997).

75. Balasubramanian Krishnan, U.M. Heller, V.K. Mitrjushkin and M. Müller-Preussker, Compact U(1) Lattice Gauge-Higgs Theory with Monopole Suppression, preprint FSU-SCRI-96-47.

76. C. Bernard, *et al.*, “The MIMD Lattice Computation (MILC) Collaboration”, Two-Flavor Staggered Fermion Thermodynamics at $N_t = 12$, *Phys. Rev.* **D54**, 4585 (1996).

77. C. Bernard, *et al.*, “The MIMD Lattice Computation (MILC) Collaboration”, Which Chiral Symmetry is Restored in High Temperature QCD, *Phys. Rev. Lett.* **78**, 598 (1997).

78. T. Blum, *et al.*, “The MIMD Lattice Computation (MILC) Collaboration”, Improving Flavor Symmetry in the Kogut–Susskind Hadron Spectrum, *Phys. Rev.* **D55**, 1133 (1997).

79. S. Gottlieb, *et al.*, “The High Temperature Monte Carlo Grand Challenge Collaboration”, Thermodynamics of Lattice QCD with two Light Quarks on a $16^3 \times 8$ Lattice II, *Phys. Rev.* **D55**, 6852 (1997).

80. C. Bernard, *et al.*, “The MIMD Lattice Computation (MILC) Collaboration”, The Equation of State for two Flavor QCD at $N_t = 6$, *Phys. Rev.* **D55**, 6861 (1997).

81. P.H. Damgaard, U.M. Heller, A. Krasnitz and P. Olesen, On Lattice QCD with Many Flavors, *Phys. Lett.* **B400**, 169 (1997).

82. C. Bernard, *et al.*, “The MIMD Lattice Computation (MILC) Collaboration”, QCD Thermodynamics with an Improved Lattice Action, *Phys. Rev.* **D56**, 5584 (1997).

83. G. Cella, U.M. Heller, V.K. Mitrjushkin and A. Viceré, The Coulomb law in the pure gauge U(1) theory on a lattice, *Phys. Rev.* **D56**, 3896 (1997).

84. Urs M. Heller, The Schrödinger functional running coupling with staggered fermions, *Nucl. Phys.* **B504**, 435 (1997).

85. C. Bernard, *et al.*, “The MIMD Lattice Computation (MILC) Collaboration”, Exotic mesons in quenched lattice QCD, *Phys. Rev.* **D56**, 7039 (1997).

86. Khalil M. Bitar, Urs M. Heller and Rajamani Naryanan, A new Method to Measure the Chiral Condensate in Lattice QCD using Wilson Fermions, *Phys. Lett.* **B418**, 167 (1998).

87. U.M. Heller, F. Karsch and J. Rank, The Gluon Propagator at High Temperature: Screening, Improvement and Nonzero Momenta, *Phys. Rev.* **D57**, 1438 (1998).

88. R.G. Edwards, U.M. Heller and T.R. Klassen, Accurate Scale Determinations for the Wilson Gauge Action, *Nucl. Phys.* **B517**, 377 (1998).

89. Robert G. Edwards, Urs M. Heller, Rajamani Narayanan and Robert L. Singleton, Jr., Probing the Region of Massless Quarks in Quenched Lattice QCD using Wilson Fermions, *Nucl. Phys.* **B518**, 319 (1998).

90. R.G. Edwards, U.M. Heller and T.R. Klassen, The Effectiveness of Non-perturbative O(a) Improvement in Lattice QCD, *Phys. Rev. Lett.* **80**, 3448 (1998).

91. C. Bernard, *et al.*, “The MIMD Lattice Computation (MILC) Collaboration”, Quenched Hadron Spectroscopy with Improved staggered Quark Action, *Phys. Rev.* **D58**, 014503 (1998).

92. R.G. Edwards, U.M Heller and R. Narayanan, The Hermitian Wilson–Dirac Operator in Smooth $SU(2)$ Instanton Backgrounds, *Nucl. Phys.* **B522**, 285 (1998).

93. R.G. Edwards, U.M. Heller and R. Narayanan, Spectral Flow, Chiral Condensate, and Topology in Lattice QCD, *Nucl. Phys.* **B535**, 403 (1998).

94. P.H. Damgaard, U.M. Heller, A. Krasnitz and T. Madsen, A Quark-Antiquark Condensate in Three-Dimensional QCD, *Phys. Lett.* **B440**, 129 (1998).

95. C. Bernard, *et al.*, “The MIMD Lattice Computation (MILC) Collaboration”, Continuum Limit of Lattice QCD with Staggered Quarks in the Quenched Approximation — A Critical Role for the Chiral Extrapolation, *Phys. Rev. Lett.* **81**, 3087 (1998).

96. R.G. Edwards, U.M. Heller and R. Narayanan, Evidence for fractional topological charge in SU(2) pure Yang-Mills theory, *Phys. Lett.* **B438**, 96 (1998).

97. C. Bernard, *et al.*, “The MIMD Lattice Computation (MILC) Collaboration”, Lattice Determination of Heavy-Light Decay Constants, *Phys. Rev. Lett.* **81**, 4812 (1998).

98. R.G. Edwards, U.M. Heller and R. Narayanan, A Study of Practical Implementations of the Overlap-Dirac Operator in Four Dimensions, *Nucl. Phys.* **B540**, 457 (1999).

99. P.H. Damgaard, U.M. Heller and A. Krasnitz, Microscopic Spectral Density of the Dirac Operator in Quenched QCD, *Phys. Lett.* **B445**, 366 (1999).

100. R.G. Edwards, U.M. Heller and R. Narayanan, A study of chiral symmetry in quenched QCD using the Overlap-Dirac operator, *Phys. Rev.* **D59**, 094510 (1999).

101. S. Collins, *et al.*, Sea quark effects in B Spectroscopy and Decay Constants, *Phys. Rev.* **D60**, 074504 (1999).

102. U.M. Heller, F. Karsch and B. Sturm, Improved Staggered Fermion Actions for QCD Thermodynamics, *Phys. Rev.* **D60**, 114502 (1999).

103. R.G. Edwards, U.M. Heller and R. Narayanan, Approach to the Continuum Limit of the Quenched Hermitian Wilson-Dirac Operator, *Phys. Rev.* **D60**, 034502 (1999).

104. R.G. Edwards, U.M. Heller, J. Kiskis and R. Narayanan, Quark Spectra, Topology and random Matrix Theory, *Phys. Rev. Lett.* **82**, 4188 (1999).

105. R.G. Edwards, U.M. Heller and R. Narayanan, Small Eigenvalues of the staggered Dirac Operator in the adjoint Representation and Random Matric Theory, *Phys. Rev.* **D60**, 077502 (1999).

106. R.G. Edwards and U.M. Heller, Thermodynamics with Dynamical Clover Fermions. *Phys. Lett.* **B462**, 132 (1999).

107. P.H. Damgaard, R.G. Edwards, U.M. Heller and R. Narayanan, Universal Scaling of the Chiral Condensate in Finite-Volume Gauge Theories, *Phys. Rev.* **D61**, 094503 (2000).

108. P.H. Damgaard, U.M. Heller, R. Niclasen and K. Rummukainen, Staggered Fermions and Gauge Field Topology, *Phys. Rev.* **D61**, 014501 (2000).

109. C. Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", Critical Behavior in $N_t = 4$ Staggered Fermion Thermodynamics, *Phys. Rev.* **D61**, 054503 (2000).

110. R.G. Edwards, U.M. Heller, J. Kiskis and R. Narayanan, Chiral Condensate in the Deconfined Phase of Quenched Gauge Theories, *Phys. Rev.* **D61**, 074504 (2000).

111. C. Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", Scaling Tests of the Improved Kogut-Susskind Quark Action, *Phys. Rev.* **D61**, 111502 (2000).

112. C. Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", The Static Quark Potential in Three Flavor QCD, *Phys. Rev.* **D62**, 034503 (2000).

113. P.H. Damgaard, U.M. Heller, R. Niclasen and K. Rummukainen, Low-lying Eigenvalues of the QCD Dirac Operator at Finite Temperature, *Nucl. Phys.* **B583**, 347 (2000).

114. R.G. Edwards and U.M. Heller, Domain Wall Fermions with Exact Chiral Symmetry, *Phys. Rev.* **D63**, 094505 (2001).

115. P.H. Damgaard, U.M. Heller, R. Niclasen and K. Rummukainen, Eigenvalue Distributions of the QCD Dirac Operator, *Phys. Lett.* **B495**, 263 (2000).

116. C. Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", Zero Temperature String Breaking in Lattice Qunatum Chromodynamics, *Phys. Rev.* **D64**, 074509 (2001).

117. Bernd A. Berg, Urs M. Heller, Harald Markum, Rainer Pullirsch, and Wolfgang Sakuler, Exact Zero-Modes of the Compact QED Dirac Operator, *Phys. Lett.* **B514**, 97 (2001).

118. C. Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", The QCD Spectrum with Three Quark Flavors, *Phys. Rev.* **D64**, 054506 (2001).

119. R.G. Edwards and U.M. Heller, Are Topological Charge Fluctuations in QCD Instanton Dominated?, *Phys. Rev.* **D65**, 014505 (2002).

120. C. Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", Lattice Results for the Decay Constant of Heavy-light Vector Mesons, *Phys. Rev.* **D65**, 014510 (2002).

121. P.H. Damgaard, U.M. Heller, R. Niclasen and B. Svetitsky, On the Patterns of Spontaneous Chiral Symmetry Breaking in Vectorlike Gauge Theories, *Nucl. Phys.* **B633**, 97 (2002).

122. D. Dolgov, *et al.*, "The LHPC Collaboration and the SESAM Collaboration", Moments of Nucleon Light Cone Quark Distributions Calculated in Full Lattice QCD, *Phys. Rev.* **D66**, 034506 (2002).

123. Thomas DeGrand and Urs M. Heller, Witten-Veneziano Relation, Quenched QCD, and Overlap Fermions, *Phys. Rev.* **D65**, 114501 (2002).

124. Patrick O. Bowman, Urs M. Heller and Anthony G. Williams, Lattice quark propagator with staggered quarks in Landau and Laplacian gauges, *Phys. Rev.* **D66**, 014505 (2002).

125. Patrick O. Bowman, Urs M. Heller, Derek B. Leinweber and Anthony G. Williams, Gluon Propagator on Coarse Lattices in Laplacian Gauges, *Phys. Rev.* **D66**, 074505 (2002).

126. C. Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", Lattice Calculation of Heavy-Light Decay Constants with Two Flavors of Dynamical Quarks, *Phys. Rev.* **D66**, 094501 (2002).

127. C. Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", Lattice Calculation of 1^{-+} hybrid mesons with improved Kogut-Susskind fermions, *Phys. Rev.* **D68**, 074505 (2003).

128. C.T.H. Davies, *et al.*, High-Precision Lattice QCD Confronts Experiment, *Phys. Rev. Lett.* **92**, 022001 (2004).

129. Claude Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", Topological susceptibility with the improved Asqtad action, *Phys. Rev.* **D68**, 114501 (2003).

130. Bernd A. Berg, Urs M. Heller, Hildegard Meyer-Ortmanns, Alexander Velytsky, Dynamics of Phase Transitions by Hysteresis Methods I, *Phys. Rev.* **D69**, 034501 (2004).

131. C. Aubin, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", Light hadrons with improved staggered quarks: approaching the continuum limit, *Phys. Rev.* **D70**, 094505 (2004).

132. Patrick O. Bowman, Urs M. Heller, Derek B. Leinweber, Maria B. Parappilly, Anthony G. Williams, Unquenched Gluon Propagator in Landau Gauge, *Phys. Rev.* **D70**, 034509 (2004).

133. C. Aubin, *et al.*, (HPQCD collaboration; MILC collaboration; UKQCD collaboration), First Determination of the Strange and Light Quark Masses from Full Lattice QCD, *Phys. Rev.* **D70**, 031504(R) (2004).

134. C. Bernard, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", QCD Thermodynamics with Three Flavors of Improved Staggered Quarks, *Phys. Rev.* **D71**, 034504 (2005).

135. C. Aubin, *et al.*, "The MIMD Lattice Computation (MILC) Collaboration", Light Pseudoscalar Decay Constants, Quark Masses, and Low Energy Constants from Three-flavor Lattice QCD, *Phys. Rev.* **D70**, 114501 (2004).

136. C. Aubin, *et al.*, (Fermilab Lattice collaboration; MILC collaboration; HPQCD collaboration), Semileptonic Decays of D Mesons in Three-flavor Lattice QCD, *Phys. Rev. Lett.* **94**, 011601 (2005).

137. J.B. Zhang, Patrick O. Bowman, Ryan J. Coad, Urs M. Heller, Derek B. Leinweber, Anthony G. Williams, Quark Propagator in Landau and Laplacian Gauges with Overlap Fermions, *Phys. Rev.* **D71**, 014501 (2005).

138. Patrick O. Bowman, Urs M. Heller, Derek B. Leinweber, Maria B. Parappilly, Anthony G. Williams, Jianbo Zhang, Unquenched quark propagator in Landau gauge, *Phys. Rev.* **D71**, 054507 (2005).

139. Poul H. Damgaard, Urs M. Heller, Rajamani Narayanan and Benjamin Svetitsky, Divergent chiral condensate in the quenched Schwinger model, *Phys. Rev.* **D71**, 114503 (2005).

140. S. Basak, R.G. Edwards, G.T. Fleming, U.M. Heller, C. Morningstar, D. Richards, I. Sato, S. Wallace, Group-theoretical construction of extended baryon operators in lattice QCD, *Phys. Rev.* **D72**, 094506x (2005).

141. C. Aubin, *et al.*, Charmed meson decay constants in three-flavor lattice QCD, *Phys. Rev. Lett.* **95**, 122002 (2005).

142. Subhasish Basak, Robert Edwards, George T. Fleming, Urs M. Heller, Colin Morningstar, David Richards, Ikuro Sato, Stephen J. Wallace, Clebsch-Gordan Construction of Lattice Interpolating Fields for Excited Baryons, *Phys. Rev.* **D72**, 074501 (2005).

143. P.H. Damgaard, Urs M. Heller, K. Splittorff and B. Svetitsky, New Method for Determining F_π on the Lattice, *Phys. Rev.* **D72**, 091501 (2005).

144. Alexei Bazavov, Bernd A. Berg, Urs M. Heller, Biased Metropolis-Heat-Bath Algorithm for Fundamental-Adjoint SU(2) Lattice Gauge Theory, *Phys. Rev.* **D72**, 094506 (2005).

145. Maria B. Parappilly, Patrick O. Bowman, Urs M. Heller, Derek B. Leinweber, Anthony G. Williams, J.B Zhang, Scaling behavior of quark propagator in full QCD, *Phys. Rev.* **D73**, 054504 (2006).

146. P.H. Damgaard, U.M. Heller, K. Splittorff, B. Svetitsky, D. Toublan, Extracting F_π from small lattices: unquenched results, *Phys. Rev.* **D73**, 074023 (2006).

147. P.H. Damgaard, U.M. Heller, K. Splittorff, B. Svetitsky, D. Toublan, Microscopic eigenvalue correlations in QCD with imaginary isospin chemical potential, *Phys. Rev.* **D73**, 105016 (2006).

II. Conference Contributions

1. K.C. Bowler, A. Hasenfratz, P. Hasenfratz, U.M. Heller, F. Karsch, R.D. Kenway, I. Montvay, G.S. Pawley and D.J. Wallace, Monte Carlo Renormalization Group Studies of $SU(3)$ Lattice Gauge Theory, Ref. TH. 3952 – CERN (XXII International Conference on High Energy Physics, Leipzig 1984).

2. U.M. Heller, Lattice Gauge Theory at Finite Temperature, talk given in the Proceedings of the 2nd Hellenic School on Elementary Particle Physics, Corfu, Greece, September 1–20, 1985, eds. E.N. Argyres and G. Zoupanos, World Scientific (1986), p. 395.

3. U.M. Heller, The Fundamental $SU(2)$ Higgs Model at Finite Temperature. Invited talk given at the International Symposium "Lattice Gauge Theory 1986," Brookhaven, September 15–19, 1986, eds. H. Satz, I. Harrity and J. Potvin, NATO ASI Series Vol. 195, Plenum Press (1987), p. 161.

4. U.M. Heller, The $U(1)$-Higgs Model in an External Electromagnetic Field. Invited talk given at the International Symposium "Field Theory on the Lattice," Seillac, France, September 28 – October 2, 1987, eds. A. Billoire, R. Lacaze, A. Morel, O.Napoly and J. Zinn-Justin, *Nucl. Phys.* **B (Proc.Suppl.) 4**, 417 (1988).

5. P.H. Damgaard and U.M. Heller, The Abelian Higgs Model in an External Field. Invited talk given at the "Lattice Higgs Workshop," Tallahassee, Florida, May 16–18, 1988, eds. B. Berg *et al.*, World Scientific (1988), p. 104.

6. U.M. Heller, Higgs Models in Extreme Environments. Invited talk given at the 1988 Meeting of the Division of Particles and Fields, Storrs, Connecticut, August 15–18, 1988, eds. K. Haller *et al.*, World Scientific (1989), p. 176.

7. P.H. Damgaard and U.M. Heller, Electromagnetic Properties of the Higgs Vacuum. Invited talk given by PHD at the conference "Frontiers of Nonperturbative Field Theory: Lattice Fields and Strings", Eger, Hungary, August, 1988, eds. Z. Horvath, L. Palla and A. Patkos, World Scientific (1989), p. 95.

8. U.M. Heller, Scaling in the Two-dimensional $O(4)$ Sigma Model. Invited talk given at the International Symposium *Lattice '88*, Batavia, Illinois, September 22–25, 1988, eds. A.S. Kronfeld and P.B. Mackenzie, *Nucl. Phys.* **B (Proc.Suppl.) 9**, 649 (1989).

9. P.H. Damgaard and U.M. Heller, The Phase Diagram of Higher-charged Higgs Models and External Fields. Invited talk given by PHD at the International Symposium *Lattice '88*, Batavia, Illinois, September 22–25, 1988, eds. A. S. Kronfeld and P. B. Mackenzie, *Nucl. Phys.* **B (Proc.Suppl.) 9**, 49 (1989).

10. U.M. Heller, Stochastic Overrelaxation Algorithms and Critical Slowing Down. Invited talk given at the workshop "Probabilistic Methods in Quantum Field Theory and Quantum Gravity," Cargese, France, August 22–26, 1989, eds. P. H. Damgaard *et al.* (Plenum Press 1990), p. 183.

11. U.M. Heller, Higgs Physics on the F_4 Lattice. Invited talk given at the International Symposium *Lattice '89*, Capri, Italy, September 18–21, 1988, eds E. Marinari *et al.*, *Nucl. Phys.* **B (Proc.Suppl) 17**, 649 (1990).

12. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", QCD with Dynamical Staggered Quarks. Invited talk given by S. Gottlieb at the American Physical Society Division of Particles and Fields meeting, Houston, Texas, January 3-6, 1990, in *Proceedings of The Rice Meeting*, eds. B. Bonner and H. Miettinen, World Scientific (1990), p. 764.

13. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Lattice Spectrum with Dynamical Staggered Quarks at $6/g^2 = 5.6$. Invited talk given by S. Gottlieb at PANIC XII, Particles and Nuclei, Proceedings of the Twelfth International Conference on Particle and Nuclei, Massachusetts Institute of Technology, June 24–29, 1990, eds. J. L. Matthews *et al.*, *Nucl. Phys.* **A527**, 527 (1991).

14. U.M. Heller, Higgs Mass Bound on an F_4 Lattice. Invited talk given at the International Conference on Lattice Field Theory, *Lattice '90*, Tallahassee, FL, October 8-12, 1990, eds. U.M. Heller, A.D. Kennedy and S. Sanielevici, *Nucl. Phys.* **B (Proc.Suppl.) 20**, 609 (1991).

15. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", QCD Thermodynamics with Wilson Quarks. Invited talk given by R.L. Sugar at the International Conference on Lattice Field Theory, *Lattice '90*, Tallahassee, FL, October 8-12, 1990, eds. U.M. Heller, A.D. Kennedy and S. Sanielevici, *Nucl. Phys.* **B (Proc.Suppl.) 20**, 272 (1991).

16. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Hadronic Spectroscopy at $a \approx 1.5$ fm. Invited talk given by T. DeGrand and D. Toussaint at the International Conference on Lattice Field Theory, *Lattice '90*, Tallahassee, FL, October 8-12, 1990, eds. U.M. Heller, A.D. Kennedy and S. Sanielevici, *Nucl. Phys.* **B (Proc.Suppl.) 20**, 362 (1991).

17. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Glueballs and Topological Charge in the Presence of Dynamical Quarks. Invited talk given by D.K. Sinclair at the International Conference on Lattice Field Theory, *Lattice '90*, Tallahassee, FL, October 8-12, 1990, eds. U.M. Heller, A.D. Kennedy and S. Sanielevici, *Nucl. Phys.* **B (Proc.Suppl.) 20**, 390 (1991).

18. J. Berlin and U.M. Heller, An $SU(2) \times SU(2)$ Symmetric Higgs-Fermion Model with Staggered Fermions. Invited talk given by J. Berlin at the International Conference on Lattice Field Theory, *Lattice '90*, Tallahassee, FL, October 8-12, 1990, eds. U.M. Heller, A.D. Kennedy and S. Sanielevici, *Nucl. Phys.* **B (Proc.Suppl.) 20**, 597 (1991).

19. M. Klomfass, U.M. Heller and H. Flyvbjerg, Interpolating Between $O(N)$-symmetric σ-Models with $N = 1, 2, 3$. Invited talk given by M. Klomfass at the International

Conference on Lattice Field Theory, *Lattice '90*, Tallahassee, FL, October 8-12, 1990, eds. U.M. Heller, A.D. Kennedy and S. Sanielevici, *Nucl. Phys.* **B (Proc.Suppl.) 20**, 685 (1991).

20. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", QCD Hadron Spectroscopy with Staggered Dynamical Quarks at $\beta = 5.6$. Invited talk given at the International Symposium on Lattice Field Theory, *Lattice '91*, Tsukuba, Japan, November 5-9, 1991, eds. M. Fukugita *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 26**, 259 (1992).

21. K.M. Bitar, *et al.*, Thermodynamics of Lattice QCD with 2 light Dynamical (staggered) Quark Flavours on a $16^3 \times 8$ Lattice, "The High Energy Monte Carlo Grand Challenge Collaboration". Invited talk given by D.K. Sinclair at the International Symposium on Lattice Field Theory, *Lattice '91*, Tsukuba, Japan, November 5-9, 1991, eds. M. Fukugita *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 26**, 308 (1992).

22. U.M. Heller, M. Klomfass, H. Neuberger and P. Vranas, How to Put a Heavier Higgs on the Lattice. Invited talk given by P. Vranas at the International Symposium on Lattice Field Theory, *Lattice '91*, Tsukuba, Japan, November 5-9, 1991, eds. M. Fukugita *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 26**, 522 (1992).

23. R.V. Gavai, U.M. Heller, F. Karsch, B. Plache and T. Neuhaus, A Study of Symmetry Restoration at Finite Temperature in the $O(4)$ Model using Anisotropic Lattices. Invited talk given by R. Gavai at the International Symposium on Lattice Field Theory, *Lattice '91*, Tsukuba, Japan, November 5-9, 1991, eds. M. Fukugita *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 26**, 539 (1992).

24. C. Bernard *et al.*, Finite Temperature Lattice QCD Simulations with Staggered and Wilson Fermions. Invited talk given by S. Gottlieb at Hot Summer Daze, Brookhaven National Laboratory, August 6-16, 1991, eds. A. Gocksch and A. Soni, World Scientific (1992), p. 46.

25. H. Neuberger, U.M. Heller, M. Klomfass and P. Vranas, The Triviality Bound on the Higgs Mass; its Value and what it Means. Invited talk given by H. Neuberger at the XXVI International Conference on High Energy Physics, August 6-12, 1992, Dallas, TX, Proceedings of the XXVI International Conference on High Energy Physics, Vol. II, 1360-1367, editor James R. Stanford, American Institute of Physics (1992), p. 1360.

26. U.M. Heller, Higgs Mass Bound in the Minimal Standard Model. Invited talk given at the 4th Hellenic School on Elementary Particle Physics, Corfu, Greece, September 2-20, 1992, eds. E.N. Gazis *et al.*, National Technical University (1992), Vol. II, p. 457.

27. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Hadron Spectroscopy with Dynamical Wilson Fermions at $\beta = 5.3$. Invited talk given at the International Symposium on Lattice Field Theory, *Lattice '92*, Amsterdam, The Netherlands, September 15-19, 1992, eds. J. Smit and P. van Baal, *Nucl. Phys.* **B (Proc.Suppl.) 30**, 401 (1993).

28. K.M. Bitar, R.G. Edwards, U.M. Heller and A.D. Kennedy, On the Dynamics of light Quarks in QCD. Invited talk given by R.G. Edwards at the International Symposium on Lattice Field Theory, *Lattice '92*, Amsterdam, The Netherlands, September 15-19, 1992, eds. J. Smit and P. van Baal, *Nucl. Phys.* **B (Proc.Suppl.) 30**, 249 (1993).

29. K.M. Bitar, *et al.*, QCD with 2 Light Quark Flavours: Thermodynamics on a $16^3 \times 8$ Lattice and Glueballs and Topological Charge on a $16^3 \times 32$ Lattice, "The High Energy Monte Carlo Grand Challenge Collaboration", and "The High Temperature Monte Carlo Grand Challenge Collaboration". Invited talk given by D.K. Sinclair at the International Symposium on Lattice Field Theory, *Lattice '92*, Amsterdam, The Netherlands, September 15-19, 1992, eds. J. Smit and P. van Baal, *Nucl. Phys.* **B (Proc.Suppl.) 30**, 315 (1993).

30. J. Fingberg, U.M. Heller and F. Karsch, Scaling and Asymptotic Scaling in the $SU(2)$ Gauge Theory. Invited talk given by J. Fingberg at the International Symposium on Lattice Field Theory, *Lattice '92*, Amsterdam, The Netherlands, September 15-19, 1992, eds. J. Smit and P. van Baal, *Nucl. Phys.* **B (Proc.Suppl.) 30**, 343 (1993).

31. U.M. Heller, M. Klomfass, H. Neuberger and P. Vranas, Regularization Dependence of the Higgs Mass Triviality Bound. Invited talk given by P. Vranas at the International Symposium on Lattice Field Theory, *Lattice '92*, Amsterdam, The Netherlands, September 15-19, 1992, eds. J. Smit and P. van Baal, *Nucl. Phys.* **B (Proc.Suppl.) 30**, 685 (1993).

32. G.S. Bali, J. Fingberg, U.M. Heller, F. Karsch and K. Schilling, Computation of the Spatial String Tension in High Temperature SU(2) Gauge Theory. Invited talk given by G.S. Bali at the Workshop on Large Scale Computational Physics on Massively Parallel Computers, HLRZ Jüelich, June 14–16, 1993, eds. H.J. Herrmann and F. Karsch, *Int. J. Mod. Phys.* **C4**, 1179 (1993).

33. U.M. Heller, Status of the Higgs Mass Bound. Invited planary talk given at the International Symposium on Lattice Field Theory, *Lattice '93*, Dallas, TX, October 12-16, 1993, eds. T. Draper *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 34**, 101 (1994).

34. K.M. Bitar, *et al.*, "The High Energy Monte Carlo Grand Challenge Collaboration", Simple Matrix Elements with Dynamical Fermions. Contribution to the International Symposium on Lattice Field Theory, *Lattice '93*, Dallas, TX, October 12-16, 1993, eds. T. Draper *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 34**, 379 (1994).

35. K.M. Bitar, R.G. Edwards, U.M. Heller and A.D. Kennedy, Cooling in QCD Spectroscopy. Invited talk given by R.G. Edwards at the International Symposium on Lattice Field Theory, *Lattice '94*, Bielefeld, Germany, September 27 – October 1, 1994, eds. F. Karsch *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 42**, 328 (1995).

36. M. Wingate, T. DeGrand, S. Collins and Urs M. Heller, P-wave Meson Properties with Wilson Quarks. Contribution to the International Symposium on Lattice Field Theory, *Lattice '94*, Bielefeld, Germany, September 27 – October 1, 1994, eds. F. Karsch *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 42**, 373 (1995).

37. C. Bernard *et al.*, “The MIMD Lattice Computations Collaboration”, Preliminary Heavy-Light Decay Constants from the MILC Collaboration. Invited talk given by C. Bernard at the International Symposium on Lattice Field Theory, *Lattice '94*, Bielefeld, Germany, September 27 – October 1, 1994, eds. F. Karsch *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 42**, 388 (1995).

38. C. Bernard *et al.*, “The MIMD Lattice Computations Collaboration”, and “The High Temperature Monte Carlo Grand Challenge Collaboration”. QCD Thermodynamics at $N_t = 8$ and 12. Contribution to the International Symposium on Lattice Field Theory, *Lattice '94*, Bielefeld, Germany, September 27 – October 1, 1994, eds. F. Karsch *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 42**, 448 (1995).

39. C. Bernard *et al.*, “The MIMD Lattice Computations Collaboration”, Wilson Thermodynamics at $N_t = 8$. Contribution to the International Symposium on Lattice Field Theory, *Lattice '94*, Bielefeld, Germany, September 27 – October 1, 1994, eds. F. Karsch *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 42**, 451 (1995).

40. T. Blum, C. DeTar, Urs M. Heller, Leo Kärkkäinen and D. Toussaint, SU(3) Lattice Gauge Theory with Adjoint Action at Nonzero Temperature. Invited talk given at the International Symposium on Lattice Field Theory, *Lattice '94*, Bielefeld, Germany, September 27 – October 1, 1994, eds. F. Karsch *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 42**, 457 (1995).

41. K.M. Bitar, R.G. Edwards, U.M. Heller, A.D. Kennedy and P. Vranas, Toward the QCD β-function with Dynamical Wilson Fermions. Invited talk given by K.M. Bitar at the International Symposium on Lattice Field Theory, *Lattice '94*, Bielefeld, Germany, September 27 – October 1, 1994, eds. F. Karsch *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 42**, 796 (1995).

42. C. Bernard *et al.*, “The MIMD Lattice Computations Collaboration”, Status and prospect for determining f_B, f_{B_s}, f_{B_s}/f_B on the lattice. Invited talk given at the Lafex International School on High Energy Physics, *LISHEP '95*, Rio de Janeiro, Brazil, February 20 – 22, 1995, eds. F. Caruso, M.E. Pol, A. Santoro and R. Shellard, cbt Workshop, Editions Frontieres, Gif-sur-Yvette (1995), p. 399.

43. U.M. Heller, More on SU(3) Lattice Gauge Theory in the Fundamental–Adjoint Plane. Invited talk given at the International Symposium on Lattice Field Theory, *Lattice '95*, Melbourne, Australia, July 11 – 15, 1995, eds. T.D. Kieu, B.H.J.McKellar and A.J. Guttmann, *Nucl. Phys.* **B (Proc.Suppl.) 47**, 262 (1996).

44. C. Bernard *et al.*, “The MIMD Lattice Computations Collaboration”, The Continuum Limit in the Quenched Approximation. Invited talk given by S. Gottlieb at the International Symposium on Lattice Field Theory, *Lattice '95*, Melbourne, Australia, July 11 – 15, 1995, eds. T.D. Kieu, B.H.J.McKellar and A.J. Guttmann, *Nucl. Phys.* **B (Proc.Suppl.) 47**, 345 (1996).

45. S. Collins, R.G. Edwards, U.M. Heller and J. Sloan, Quenched $SU(3)$ Hadron Spectroscopy using Improved Fermionic and Gauge Actions. Invited talk given by R.G.

Edwards at the International Symposium on Lattice Field Theory, *Lattice '95*, Melbourne, Australia, July 11 – 15, 1995, eds. T.D. Kieu, B.H.J.McKellar and A.J. Guttmann, *Nucl. Phys.* **B (Proc.Suppl.) 47**, 366 (1996).

46. S. Collins, R.G. Edwards, U.M. Heller and J. Sloan, A Comparison of Clover and Wilson Spectroscopy in the Presence of Dynamical Quarks. Invited talk given by J. Sloan at the International Symposium on Lattice Field Theory, *Lattice '95*, Melbourne, Australia, July 11 – 15, 1995, eds. T.D. Kieu, B.H.J.McKellar and A.J. Guttmann, *Nucl. Phys.* **B (Proc.Suppl.) 47**, 378 (1996).

47. S. Collins, R.G. Edwards, U.M. Heller and J. Sloan, Υ and J/Ψ Spectroscopy Using Clover Fermions in the Presence of Dynamical Quarks. Contribution to the International Symposium on Lattice Field Theory, *Lattice '95*, Melbourne, Australia, July 11 – 15, 1995, eds. T.D. Kieu, B.H.J.McKellar and A.J. Guttmann, *Nucl. Phys.* **B (Proc.Suppl.) 47**, 455 (1996).

48. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", f_B Quenched and Unquenched. Invited talk given by C. Bernard at the International Symposium on Lattice Field Theory, *Lattice '95*, Melbourne, Australia, July 11 – 15, 1995, eds. T.D. Kieu, B.H.J.McKellar and A.J. Guttmann, *Nucl. Phys.* **B (Proc.Suppl.) 47**, 459 (1996).

49. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Two-flavor Staggered-fermion Thermodynamics at $N_t = 12$. Invited talk given by C. DeTar at the International Symposium on Lattice Field Theory, *Lattice '95*, Melbourne, Australia, July 11 – 15, 1995, eds. T.D. Kieu, B.H.J.McKellar and A.J. Guttmann, *Nucl. Phys.* **B (Proc.Suppl.) 47**, 499 (1996).

50. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", The $N_t = 6$ Equation of State for Two Flavor QCD. Invited talks given by T. Blum and L. Kärkkäinen at the International Symposium on Lattice Field Theory, *Lattice '95*, Melbourne, Australia, July 11 – 15, 1995, eds. T.D. Kieu, B.H.J.McKellar and A.J. Guttmann, *Nucl. Phys.* **B (Proc.Suppl.) 47**, 503 (1996).

51. K.M. Bitar, R.G. Edwards, U.M. Heller and A.D. Kennedy, QCD with Dynamical Wilson Fermions at $\beta = 5.5$. Invited talk given at the XIV International Symposium on Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 225 (1997).

52. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Recent MILC Spectrum Results. Contribution to the XIV International Symposium on Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 212 (1997).

53. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Exotic Hybrid Mesons with Light Quarks. Contribution to the XIV International Symposium on

Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 228 (1997).

54. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Update on f_B. Contribution to the XIV International Symposium on Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 358 (1997).

55. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Assorted Weak Matrix Elements involving the Bottom Quark. Contribution to the XIV International Symposium on Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 374 (1997).

56. S. Collins, U.M. Heller, J. Sloan, J. Shigemitsu, A. Ali Khan and C.T.H. Davies, Latest Results from the SGO Collaboration. Invited talk given by S. Collins at the XIV International Symposium on Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 389 (1997).

57. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Thermodynamics for Two Flavor QCD. Contribution to the XIV International Symposium on Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 442 (1997).

58. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Finite Temperature Lattice QCD with Clover Fermions. Invited talk given by M. Wingate at the XIV International Symposium on Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 446 (1997).

59. S. Collins, R.G. Edwards, U.M. Heller and J. Sloan, Comparing Wilson and Clover Quenched $SU(3)$ Spectroscopy with an Improved Gauge Action. Invited talk given by R.G. Edwards at the XIV International Symposium on Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 877 (1997).

60. S. Collins, R.G. Edwards, U.M. Heller and J. Sloan, Differences between Clover and Wilson Spectroscopy on a 2 GeV Lattice. Invited talk given by J. Sloan at the XIV International Symposium on Lattice Field Theory, *Lattice '96*, St. Louis, Missouri, June 4 – 8, 1996, eds. C. Bernard, M. Golterman, M. Ogilvie and J. Potvin, *Nucl. Phys.* **B (Proc.Suppl.) 53**, 880 (1997).

61. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", The hot QCD equation of state from lattice simulations. Prepared for 9th Annual Divisional Meeting (DPF 96) of the Division of Particles and Fields of the American Physical Society,

Minneapolis, Minnesota, 11-15 Aug 1996. Published in *Minneapolis 1996, Particles and fields, vol. 2* 1156-1158.

62. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", The Equation of State for QCD from the Lattice. Presented by T. Blum at the RHIC Summer Study 96: Brookhaven Theory Workshop on Relativistic Heavy Ions, Upton, NY, July 8 – 19, 1996, to appear in the proceedings, preprint FSU-SCRI-96c-133.

63. S. Collins, R.G. Edwards, U.M. Heller and J. Sloan, Reducing Discretization Errors in Lattice QCD Spectroscopy. Invited talk given at the Conference "Multiscale Phenomena and Their Simulation", September 30 – October 4, 1996, Bielefeld, Germany, eds. F. Karsch, B. Monien and H. Satz, World Scientific (1997), p. 189.

64. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Light Hadron Spectrum: MILC Results with the Kogut-Susskind and Wilson Actions, Invited talk given by S. Gottlieb at the International Workshop on Lattice QCD on Parallel Computers, March 10 – 15, 1997, Tsukuba, Japan, *Nucl. Phys.* **B (Proc.Suppl.) 60A**, 3 (1998).

65. S. Collins, R.G. Edwards, U.M. Heller and J. Sloan, SCRI Results with the Tadpole-Improved Clover Action. Invited talk given by J. Sloan at the International Workshop on Lattice QCD on Parallel Computers, March 10 – 15, 1997, Tsukuba, Japan, *Nucl. Phys.* **B (Proc.Suppl.) 60A**, 34 (1998).

66. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Hybrid mesons in quenched lattice QCD, Invited talk given by D. Toussaint at the International Workshop on Lattice QCD on Parallel Computers, March 10 – 15, 1997, Tsukuba, Japan, *Nucl. Phys.* **B (Proc.Suppl.) 60A**, 61 (1998).

67. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Heavy - Light Decay Constants: MILC Results with the Wilson Action, Invited talk given by S. Gottlieb at the International Workshop on Lattice QCD on Parallel Computers, March 10 – 15, 1997, Tsukuba, Japan, *Nucl. Phys.* **B (Proc.Suppl.) 60A**, 106 (1998).

68. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", MILC Studies of High Temperature QCD — a Progress Report, Invited talk given by D. Toussaint at the International Workshop on Lattice QCD on Parallel Computers, March 10 – 15, 1997, Tsukuba, Japan, *Nucl. Phys.* **B (Proc.Suppl.) 60A**, 195 (1998).

69. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Towards the QCD spectrum with dynamical quarks, Invited talk given by D. Toussaint at the International Workshop on Lattice QCD on Parallel Computers, March 10 – 15, 1997, Tsukuba, Japan, *Nucl. Phys.* **B (Proc.Suppl.) 60A**, 297 (1998).

70. U.M. Heller, F. Karsch and J. Rank, Screening Lengths in SU(2) Gauge Theory at Finite Temperature. Invited talk given by F. Karsch at the Eotvos Conference in Science: "Strong and Electroweak Matter (SEWM 97)", Eger, Hungary, May 21–25, 1997, in *Eger 1997, Strong electroweak matter '97, pg. 399.

71. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", B Mixing on the Lattice: f_B, f_{B_s} and Related Quantities. Invited talk given by C. Bernard at the 20th Anniversary Symposium: "Twenty Beautiful Years of Bottom Physics", Chicago, IL, Jun 29 – Jul 2, 1997, eds. R. Burnstein, D. Kaplan and H. Rubin, AIP Conference Proceedings 424 (1988) 227.

72. Urs M. Heller, The Schrödinger functional running coupling with staggered fermions and its application to many flavor QCD, Poster presented at the XV International Symposium on Lattice Field Theory, *Lattice '97*, Edinburgh, Scotland, July 22 – 26, 1997, eds. C.T.H. Davies *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 63A-C**, 248 (1998).

73. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Light Quark Spectrum with Improved Gauge and Fermion Actions. Invited talk given by S. Gottlieb at the XV International Symposium on Lattice Field Theory, *Lattice '97*, Edinburgh, Scotland, July 22 – 26, 1997, eds. C.T.H. Davies *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 63A-C**, 182 (1998).

74. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Exotic Hybrid Mesons and Four-quark States, Poster presented by D. Toussaint at the XV International Symposium on Lattice Field Theory, *Lattice '97*, Edinburgh, Scotland, July 22 – 26, 1997, eds. C.T.H. Davies *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 63A-C**, 206 (1998).

75. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Update on the Hadron Spectrum with Two Flavors of Staggered Quarks. Poster presented by R. Sugar at the XV International Symposium on Lattice Field Theory, *Lattice '97*, Edinburgh, Scotland, July 22 – 26, 1997, eds. C.T.H. Davies *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 63A-C**, 215 (1998).

76. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Heavy Light Decay Constants from Wilson and Static Quarks. Poster presented by C. Bernard at the XV International Symposium on Lattice Field Theory, *Lattice '97*, Edinburgh, Scotland, July 22 – 26, 1997, eds. C.T.H. Davies *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 63A-C**, 362 (1998).

77. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", B Meson Form-Factors from HQET Simulations. Invited talk given by C. McNeile at the XV International Symposium on Lattice Field Theory, *Lattice '97*, Edinburgh, Scotland, July 22 – 26, 1997, eds. C.T.H. Davies *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 63A-C**, 374 (1998).

78. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Critical Behavior at the Chiral Phase Transition. Poster presented by C. DeTar at the XV International Symposium on Lattice Field Theory, *Lattice '97*, Edinburgh, Scotland, July 22 – 26, 1997, eds. C.T.H. Davies *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 63A-C**, 400 (1998).

79. U.M. Heller, F. Karsch and J. Rank, Screening Masses and Improvement in Pure SU(2) Lattice Gauge Theory at, High Temperatures. Invited talk given by J. Rank at the XV

International Symposium on Lattice Field Theory, *Lattice '97*, Edinburgh, Scotland, July 22 – 26, 1997, eds. C.T.H. Davies *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 63A-C**, 421 (1998).

80. R.G. Edwards, U.M. Heller, and T.R. Klassen, The Schrödinger Functional and Nonperturbative Improvement. Invited talks given by R. Edwards and T. Klassen at the XV International Symposium on Lattice Field Theory, *Lattice '97*, Edinburgh, Scotland, July 22 – 26, 1997, eds. C.T.H. Davies *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 63A-C**, 847 (1998).

81. G. Cella, U.M. Heller, V.K. Mitrjushkin and A. Viceré, The Coulomb law in the pure gauge $U(1)$ theory on a lattice. Invited talk given by V. Mitrjushkin at the 31st International Ahrenshoop Symposium on the Theory of Elementary Particles, Buckow, Germany, Sep 2 – 6, 1997, printed in the conference prodeedings, pg 295–301.

82. R.G. Edwards, U.M. Heller, and Rajamani Narayanan, Evidence for Fractional Topological Charge in SU(2) Pure Yang-Mills Theory. Invited talk given at the XVI International Symposium on Lattice Field Theory, *Lattice '98*, Boulder, CO, July 13 – 18, 1998, eds. T. DeGrand *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 73**, 497 (1999).

83. R.G. Edwards, U.M. Heller, and Rajamani Narayanan, Topological Susceptibility and Zero Mode Size in Lattice QCD. Invited talk given by R. Edwards at the XVI International Symposium on Lattice Field Theory, *Lattice '98*, Boulder, CO, July 13 – 18, 1998, eds. T. DeGrand *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 73**, 500 (1999).

84. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Heavy-Light Decay Constants: Conclusions from the Wilson Action. Invited poster presented by C. Bernard at the XVI International Symposium on Lattice Field Theory, *Lattice '98*, Boulder, CO, July 13 – 18, 1998, eds. T. DeGrand *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 73**, 372 (1999).

85. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Exotic Meson Spectroscopy from the Clover Action at $\beta = 5.85$ and 6.15. Invited poster presented by C. McNeile at the XVI International Symposium on Lattice Field Theory, *Lattice '98*, Boulder, CO, July 13 – 18, 1998, eds. T. DeGrand *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 73**, 264 (1999).

86. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Light Hadron Spectrum with Kogut-Susskind Quarks. Invited poster presented by S. Gottlieb at the XVI International Symposium on Lattice Field Theory, *Lattice '98*, Boulder, CO, July 13 – 18, 1998, eds. T. DeGrand *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 73**, 198 (1999).

87. R.G. Edwards, U.M. Heller, Joe Kiskis and Rajamani Narayanan, Topology and chiral symmetry in finite temperature QCD. Invited talk given at the XVII International Symposium on Lattice Field Theory, *Lattice '99*, Pisa, Italy, June 29 – July 3, 1999, eds. M. Campostrini *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 83-84**, 479 (2000).

88. P.H. Damgaard, R.G. Edwards, U.M. Heller and Rajamani Narayanan, Finite-Volume Scaling of the Quenched Chiral Condensate. Invited talk given by P. Damgaard at the XVII International Symposium on Lattice Field Theory, *Lattice '99*, Pisa, Italy, June 29 – July 3, 1999, eds. M. Campostrini *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 83-84**, 434 (2000).

89. R.G. Edwards, U.M. Heller, Joe Kiskis and Rajamani Narayanan, Overlap Dirac Operator, Eigenvalues and Random Matrix Theory. Invited talk given by R. Edwards at the XVII International Symposium on Lattice Field Theory, *Lattice '99*, Pisa, Italy, June 29 – July 3, 1999, eds. M. Campostrini *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 83-84**, 446 (2000).

90. P.H. Damgaard, U.M. Heller, R. Niclasen and K. Rummukainen, Looking for Effects of Topology in the Dirac Spectrum of Staggered Fermions. Invited poster presented by R. Niclasen at the XVII International Symposium on Lattice Field Theory, *Lattice '99*, Pisa, Italy, June 29 – July 3, 1999, eds. M. Campostrini *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 83-84**, 197 (2000).

91. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Semileptonic Decays of Heavy Mesons with the Fat Clover Action. Invited talk given by C. DeTar at the XVII International Symposium on Lattice Field Theory, *Lattice '99*, Pisa, Italy, June 29 – July 3, 1999, eds. M. Campostrini *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 83-84**, 274 (2000).

92. Carleton DeTar, Urs M. Heller and Pierre Lacock, First Signs for String Breaking in Two-Flavor QCD. Invited talk given by P. Lacock at the XVII International Symposium on Lattice Field Theory, *Lattice '99*, Pisa, Italy, June 29 – July 3, 1999, eds. M. Campostrini *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 83-84**, 310 (2000).

93. C. Bernard *et al.*, "The MIMD Lattice Computations Collaboration", Heavy-Light Decay Constants with Dynamical Gauge Configurations and Wilson or Improved Valence Quark Actions. Invited poster presented by S. Gottlieb at the XVII International Symposium on Lattice Field Theory, *Lattice '99*, Pisa, Italy, June 29 – July 3, 1999, eds. M. Campostrini *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 83-84**, 289 (2000).

94. Robert G. Edwards, Urs M. Heller, Joe Kiskis and Rajamani Narayanan, Topology and Chiral Symmetry in QCD with Overlap Fermions. Invited talk given at NATO Advanced Research Workshop on Lattice Fermions and Structure of the Vacuum, Dubna, Russia, 5-9 Oct 1999, eds. V. Mitrjushkin and G. Schierholz, Kluwer Academic 2000, pg 53.

95. Achim Bode, Urs M. Heller, Robert G. Edwards and Rajamani Narayanan, First Experiences with HMC for Dynamical Overlap Fermions. Poster presented at NATO Advanced Research Workshop on Lattice Fermions and Structure of the Vacuum, Dubna, Russia, 5-9 Oct 1999, eds. V. Mitrjushkin and G. Schierholz, Kluwer Academic 2000, pg 65.

96. Robert G. Edwards, Urs M. Heller and Rajamani Narayanan, The Overlap Dirac Operator: Topology and Chiral Symmetry Breaking. Invited Talk given by R. Edwards at Workshop on Chiral Gauge Theories (Chiral 99), Taipei, Taiwan, China, 13-18 Sep 1999, *Chin. J. Phys* **38**, 594 (2000).

97. R.G. Edwards and U.M. Heller, Exact Chiral Symmetry for Domain Wall Fermions with Finite L_s. Invited talk given at the XVIII International Symposium on Lattice Field Theory, *Lattice 2000*, Bangalore, India, August 17 – 22, 2000, eds. T. Bhattacharya *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 94**, 737 (2001).

98. C. Bernard *et al.*, Quark Loop Effects with with an Improved Staggered Fermion Action. Invited poster presented by C. DeTar at the XVIII International Symposium on Lattice Field Theory, *Lattice 2000*, Bangalore, India, August 17 – 22, 2000, eds. T. Bhattacharya *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 94**, 237 (2001).

99. C. Bernard *et al.*, Zero Temperature String Breaking with Staggered Quarks. Invited talk given by C. DeTar at the XVIII International Symposium on Lattice Field Theory, *Lattice 2000*, Bangalore, India, August 17 – 22, 2000, eds. T. Bhattacharya *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 94**, 546 (2001).

100. D. Dolgov *et al.*, Moments of Structure Functions in Full QCD. Invited talk given by J. Negele at the XVIII International Symposium on Lattice Field Theory, *Lattice 2000*, Bangalore, India, August 17 – 22, 2000, eds. T. Bhattacharya *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 94**, 303 (2001).

101. C. Bernard *et al.*, f_B for Various Actions : Approaching the Continuum Limit with Dynamical Fermions. Invited talk given by S. Datta at the XVIII International Symposium on Lattice Field Theory, *Lattice 2000*, Bangalore, India, August 17 – 22, 2000, eds. T. Bhattacharya *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 94**, 346 (2001).

102. C. Bernard *et al.*, Thermodynamics with 3 and 2+1 Flavors of Improved Staggered Quarks. Invited talk given at the XIX International Symposium on Lattice Field Theory, *Lattice 2001*, Berlin, Germany, August 19 – 24, 2001, eds. M. Müller-Preussker *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 106**, 429 (2002).

103. Bernd A. Berg, Urs M. Heller, Harald Markum, Rainer Pullirsch, Wolfgang Sakuler, Zero-modes of the QED Neuberger Dirac operator. Invited talk given by B. Berg and poster presented by R. Pullirsch at the XIX International Symposium on Lattice Field Theory, *Lattice 2001*, Berlin, Germany, August 19 – 24, 2001, eds. M. Müller-Preussker *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 106**, 592 (2002).

104. C. Bernard *et al.*, Heavy-light Decay Constants with three Dynamical Flavors. Invited poster presented by C. Bernard at the XIX International Symposium on Lattice Field Theory, *Lattice 2001*, Berlin, Germany, August 19 – 24, 2001, eds. M. Müller-Preussker *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 106**, 412 (2002).

105. P.O. Bowman, U.M. Heller, A.G. Williams, Lattice Quark Propagator in Landau and Laplacian Gauges. Invited talk given by P. Bowman at the XIX International Symposium on Lattice Field Theory, *Lattice 2001*, Berlin, Germany, August 19 – 24, 2001, eds. M. Müller-Preussker *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 106**, 820 (2002).

106. C. Bernard *et al.*, Thermodynamics with 2+1 and 3 Flavors of Improved Staggered Quarks. Invited talk given at the International Conference on "Statistical QCD", Bielefeld, Germany, August 26 – 30, 2001, eds. F. Karsch and H. Satz, *Nucl. Phys.* **A702**, 140 (2002).

107. Robert G. Edwards and Urs M. Heller, Probing the QCD Vacuum with Overlap Fermions. Invited talk given at the Workshop on Lattice Hadron Physics "LHP2001", July 9 – 18, 2001, Cairns, Australia, eds. A. Kalloniatis *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 109**, 124 (2002).

108. P.O. Bowman, U.M. Heller and A.G. Williams, Quark Propagator from an Improved Staggered Action in Laplacian and Landau Gauges. Invited talk given by P. Bowman at the Workshop on Lattice Hadron Physics "LHP2001", July 9 – 18, 2001, Cairns, Australia, eds. A. Kalloniatis *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 109**, 163 (2002).

109. C. Bernard *et al.*, High Temperature QCD with three Flavors of Improved Staggered Quarks. Invited talk given at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 523 (2003).

110. Alexander Velytsky, Bernd A. Berg and Urs M. Heller, Dynamics of the 2d Potts Model Phase Transition. Invited talk given by A. Velytsky, at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 861 (2003).

111. C. Bernard *et al.*, Light Hadron Properties with Improved Staggered Quarks. Invited poster presented by D. Toussaint at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 257 (2003).

112. C. Bernard *et al.*, Topological Susceptibility with the Improved Asqtad Action. Invited poster presented by C. DeTar at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 991 (2003).

113. C. Bernard *et al.*, Static Hybrid Quarkonium Potential with Improved Staggered Quarks. Invited poster presented by Ziwen Fu at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 598 (2003).

114. C. Aubin *et al.*, Chiral Logs with Staggered Fermions. Invited talk given by C. Bernard at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 233 (2003).

115. C. Bernard *et al.*, Exotic Hybrid Mesons from Improved Kogut-Susskind Fermions. Invited talk given by E. Gregory at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 260 (2003).

116. P.O. Bowman, U.M. Heller, D.B. Leinweber and A.G. Williams, Modelling the Quark Propagator. Invited talk given by P. Bowman at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 323 (2003).

117. C. Bernard *et al.*, Heavy-Light Meson Decay Constants with $N_f = 3$. Invited poster presented by S. Gottlieb at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 613 (2003).

118. P. Dreher *et al.*, Continuum Extrapolation of Moments of Nucleon Quark Distributions in Full QCD. Invited talk given by P. Dreher at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 392 (2003).

119. R.G. Edwards, U.M. Heller and D.G. Richards Spectroscopy using the Anisotropic Clover Action. Invited poster presented by D. Richards at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 305 (2003).

120. C. Bernard *et al.*, A Comparison of Improved Cooling and Hypercubic Smearing for Topology on Dynamical Asqtad Lattices, Invited poster presented by J. Hetrick at the XX International Symposium on Lattice Field Theory, *Lattice 2002*, Cambrigde, MA, June 24 – 29, 2002, eds. Robert Edwards, John Negele and David Richards, *Nucl. Phys.* **B (Proc.Suppl.) 119**, 769 (2003).

121. Bernd A. Berg, Urs M. Heller, Hildegard Meyer-Ortmanns, Alexander Velytsky, Spinodal Decomposition and the Deconfining Phase Transition, Invited talk given by B. Berg at the XXI International Symposium on Lattice Field Theory, *Lattice 2003*, Tsukuba , Ibaraki , Japan, July 15 – 19, 2003, *Nucl. Phys.* **B (Proc.Suppl.) 129**, 587 (2004).

122. C. Bernard *et al.*, Quark Loop Effects in Semileptonic Form Factors for Heavy-Light Mesons, Invited poster presented by C. DeTar at the XXI International Symposium

on Lattice Field Theory, *Lattice 2003*, Tsukuba , Ibaraki , Japan, July 15 – 19, 2003, *Nucl. Phys.* **B (Proc.Suppl.) 129**, 364 (2004).

123. W. Schroers *et al.*, Moments of Nucleon Spin-Dependent Generalized Parton Distributions, Invited talk given by W. Schroers at the XXI International Symposium on Lattice Field Theory, *Lattice 2003*, Tsukuba , Ibaraki , Japan, July 15 – 19, 2003, *Nucl. Phys.* **B (Proc.Suppl.) 129**, 907 (2004).

124. R. Edwards *et al.*, Baryonic Operators for Lattice Simulations, Invited poster presented by C. Morningstar at the XXI International Symposium on Lattice Field Theory, *Lattice 2003*, Tsukuba , Ibaraki , Japan, July 15 – 19, 2003, *Nucl. Phys.* **B (Proc.Suppl.) 129**, 236 (2004).

125. C. Aubin *et al.*, Pion and Kaon Physics with Improved Staggered Quarks, Invited poster presented by C. Bernard at the XXI International Symposium on Lattice Field Theory, *Lattice 2003*, Tsukuba , Ibaraki , Japan, July 15 – 19, 2003, *Nucl. Phys.* **B (Proc.Suppl.) 129**, 227 (2004).

126. S. Basak *et al.*, Mass Spectrum of N* and Source Optimization, Invited talk given by I. Sato at the XXI International Symposium on Lattice Field Theory, *Lattice 2003*, Tsukuba , Ibaraki , Japan, July 15 – 19, 2003, *Nucl. Phys.* **B (Proc.Suppl.) 129**, 209 (2004).

127. C. Bernard *et al.*, Excited States in Staggered Meson Propagators, Invited poster presented by E. Gregory at the XXI International Symposium on Lattice Field Theory, *Lattice 2003*, Tsukuba , Ibaraki , Japan, July 15 – 19, 2003, *Nucl. Phys.* **B (Proc.Suppl.) 129**, 230 (2004).

128. C. Bernard *et al.*, The Phase Diagram of High Temperature QCD with Three Flavors of Improved Staggered Quarks, Invited poster presented by R. Sugar at the XXI International Symposium on Lattice Field Theory, *Lattice 2003*, Tsukuba , Ibaraki , Japan, July 15 – 19, 2003, *Nucl. Phys.* **B (Proc.Suppl.) 129**, 626 (2004).

129. S. Basak *et al.*, Baryon operators and spectroscopy in lattice QCD. Invited talk given by D. Richards at the Workshop on Lattice Hadron Physics "LHP2003", July 22 – 30, 2003, Cairns, Australia, *Nucl. Phys.* **B (Proc.Suppl.) 128**, 186 (2004).

130. Patrick O. Bowman, Urs M. Heller, Derek B. Leinweber, Anthony G. Williams, Jianbo Zhang, Infrared and ultraviolet properties of the Landau gauge quark propagator. Invited talk given by P. Bowman at the Workshop on Lattice Hadron Physics "LHP2003", July 22 – 30, 2003, Cairns, Australia, *Nucl. Phys.* **B (Proc.Suppl.) 128**, 23 (2004).

131. J.W. Negele *et al.*, Insight into nucleon structure from lattice calculations of moments of the generalized parton distributions. Invited talk given by J. Negele at the Workshop on Lattice Hadron Physics "LHP2003", July 22 – 30, 2003, Cairns, Australia, *Nucl. Phys.* **B (Proc.Suppl.) 128**, 170 (2004).

132. C. Aubin *et al.*, Results for Light Pseudoscalars from Three-flavor Simulations, Invited talk given by C. Bernard at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 231 (2005).

133. C. Aubin *et al.*, Topological Susceptibility with Three Flavors of Staggered Quarks, Invited poster presented by C. DeTar at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 600 (2005).

134. S. Basak *et al.*, Analysis of $N^\star$ Spectra Using Matrices of Correlation Functions Based on Irreducible Baryon Operators, Invited talk given by S. Basak at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 278 (2005).

135. S. Basak *et al.*, Baryonic Sources Using Irreducible Representations of the Double-covered Octahedral Group, Invited talk given by I. Sato at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 281 (2005).

136. S. Basak *et al.*, Group-theoretical Construction of Extended Baryon Operators, Invited talk given by C. Morningstar at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 287 (2005).

137. C. Bernard *et al.*, Three Flavor QCD at High Temperatures, Invited poster presented by R. Sugar at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 538 (2005).

138. M. Okamoto, *et al.*, Semileptonic $D \to \pi/K$ and $B \to \pi/D$ decays in 2+1 flavor lattice QCD, Invited talk given by M. Okamoto at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 461 (2005).

139. C. Bernard *et al.*, Heavy-light decay constants using clover valence quarks and three flavors of dynamical improved staggered quarks. Invited talk given by S. Gottlieb at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 449 (2005).

140. C. Aubin *et al.*, The scaling dimension of low lying Dirac eigenmodes and of the topological charge density. Invited talk given by J. Hetrick at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 626 (2005).

141. J.N. Simone, *et al.*, Leptonic decay constants f_{D_s} and f_D in three flavor lattice QCD, Invited talk given by J. Simone at the XXII International Symposium on Lattice Field Theory, *Lattice 2004*, Fermilab, Batavia IL, USA, June 21 – 26, 2004, eds. G. Bodwin *et al.*, *Nucl. Phys.* **B (Proc.Suppl.) 140**, 443 (2005).

142. Urs M. Heller, Light hadrons in 2+1 flavor lattice QCD. Invited talk given at the First Meeting of the APS Topical Group on Hadronic Physics, Fermilab, Batavia, Illinois, USA, Oct. 24 – 26, 2004, eds. Ted Barnes *et al.*, *J. Phys. Conf. Ser.* **9**, 248 (2005).

143. C. Bernard *et al.*, The Equation of State for QCD with 2+1 Flavors of Quarks, Invited talk given by L. Levkova at the XXIII International Symposium on Lattice Field Theory, *Lattice 2005*, Dublin, Ireland, July 25 – 30, 2005, eds. A. Irving, C. McNeile and C. Michael, *Proc. of Sci.* **LAT2005**, 156 (2005).

144. C. Bernard *et al.*, Update on pi and K Physics, Poster presented by C. Bernard at the XXIII International Symposium on Lattice Field Theory, *Lattice 2005*, Dublin, Ireland, July 25 – 30, 2005, eds. A. Irving, C. McNeile and C. Michael, *Proc. of Sci.* **LAT2005**, 025 (2005).

145. Andreas S. Kronfeld *et al.*, Predictions from Lattice QCD, Poster presented by A. Kronfeld at the XXIII International Symposium on Lattice Field Theory, *Lattice 2005*, Dublin, Ireland, July 25 – 30, 2005, eds. A. Irving, C. McNeile and C. Michael, *Proc. of Sci.* **LAT2005**, 206 (2005).

146. C. Bernard *et al.*, The locality of the fourth root of staggered fermion determinant in the interacting case, Invited talk given by F. Maresca at the XXIII International Symposium on Lattice Field Theory, *Lattice 2005*, Dublin, Ireland, July 25 – 30, 2005, eds. A. Irving, C. McNeile and C. Michael, *Proc. of Sci.* **LAT2005**, 114 (2005).

147. A. Lichtl *et al.*, Combining Quark and Link Smearing to Improve Extended Baryon Operators, Invited talk given by A. Lichtl at the XXIII International Symposium on Lattice Field Theory, *Lattice 2005*, Dublin, Ireland, July 25 – 30, 2005, eds. A. Irving, C. McNeile and C. Michael, *Proc. of Sci.* **LAT2005**, 076 (2005).

148. C. Bernard *et al.*, More evidence of localization in the low-lying Dirac spectrum, Invited talk given by J. Hetrick at the XXIII International Symposium on Lattice Field Theory, *Lattice 2005*, Dublin, Ireland, July 25 – 30, 2005, eds. A. Irving, C. McNeile and C. Michael, *Proc. of Sci.* **LAT2005**, 299 (2005).

149. C. Aubin *et al.*, The decay constants f_{D_s} and f_D^+ in three-flavor lattice QCD, Poster presented by J. Simone at the XXIII International Symposium on Lattice Field Theory, *Lattice 2005*, Dublin, Ireland, July 25 – 30, 2005, eds. A. Irving, C. McNeile and C. Michael, *Proc. of Sci.* **LAT2005**, 211 (2005).

150. Urs M. Heller, Some results from full 2+1 flavor simulations of QCD. Talk given at the HEP2005 Europhysics Conference, Lisbon, Portugal, July 21 – 27, 2005. To appear in the proceedings.

151. Maria B. Parappilly, Patrick O. Bowman, Urs M. Heller, Derek B. Leinweber, Anthony G. Williams, J.B. Zhang, Effects of dynamical sea-quarks on quark and gluon propagators, Invited talk given by M. Parappilly at Particles and Nuclei International Conference (PANIC05): Santa Fe, NM, USA Oct.24-28, 2005, hep-lat/0601010, to appear in the proceedings.

152. S. Basak, R.G. Edwards, G.T. Fleming, U.M. Heller, A. Lichtl, C. Morningstar, D.G. Richards, I. Sato, S. Wallace, Baryon Operators and Baryon Spectroscopy, Invited talk given by D. Richards at Workshop on Computational Hadron Physics, Cyprus, Sept. 14-17, 2005,

III. Solicited Articles

1. K.M. Bitar, *et al.*, “The High Energy Monte Carlo Grand Challenge Collaboration”, The High Energy Monte Carlo Grand Challenge: Simulating Quarks and Gluons, *Intl. J. Supercomputer Applications* **4**, 48 (1990).

2. Steven A. Gottlieb, *et al.*, “The High Temperature Monte Carlo Grand Challenge Collaboration”, Hadron Thermodynamics on the Connection Machine, *Intl. J. Supercomputer Applications* **5**, 50 (1991).

3. K.M. Bitar and U.M. Heller, Lattice Field Simulations Press the Limits of Computational Physics, *Computers in Physics*, January/Ferbruary 1992, pg 33.

4. U.M. Heller, Lattice Simulations of Quantum Chromodynamics, in “Computing at the Leading Edge, Research in the Energy Sciences”, UCRL-TB-111084, January 1993, pg 72.

5. R.G. Edwards, U.M. Heller and R. Narayanan, Chiral Fermions on the Lattice, *Parallel Computing* **25**, 1395 (1999).

6. U.M. Heller, Numerical Simulations in Lattice Quantum Chromodynamics, in “Sourcebook of Parallel Computing”, Morgan Kaufmann Publishers 2002, eds. J. Dongarra *et al.*, pg 194.

7. P.O. Bowman, U.M. Heller, D.B. Leinweber, A.G. Williams, J.B. Zhang, Quark Propagator from LQCD and Its Physical Implications, in Lecture Notes in Physics **663**, “Lattice Hadron Physics”, eds. A.C. Kalloniatis, D.B. Leinweber, A.G. Williams, (Springer, Berlin Heidelberg 2005) pg 17.

IV. Recent Colloquia, Seminars and Other Talks

1. Spatial string tension in high temperature SU(2) gauge theory. Invited seminar given at the University of Utah, February 1994.

2. The positive plaquette model and universality in SU(2) lattice gauge theory. Invited seminar given at:
   University of Bielefeld, Germany, July, 1994.
   University of Münster, Germany, July 1994.
   Humboldt-Universität, Berlin, Germany, August 1994.

3. Computation of simple weak interaction matrix elements in lattice QCD. Invited colloquium given at the Universidad Estadual Paulista, Saõ Paulo, Brazil, February 1995.

4. Computation of heavy-light decay constants in lattice QCD. Invited seminar given at:
   Institute for Advanced Study, Princeton, May 1995.
   Columbia University, New York, May 1995.
   University of Adelaide, Australia, July 1995.

5. Spectroscopy with clover fermions. Invited seminar given at the University of Colorado, February 1996.

6. Reducing Discretization Errors in Lattice QCD Spectroscopy. Invited talk given at the 6th Workshop on Lattice Field Theory "Present Results and Future Perspectives", September 19 – 21, 1996, Vienna, Austria.

7. Towards quenched QCD spectroscopy by reducing discretization errors. Invited seminar given at:
   ETH-Zürich, Zürich, Switzerland, September 1996.
   Niels Bohr Institute, Copenhagen, Denmark, October 1996.
   HLRZ Jülich, Jülich, Germany, November 1996.
   Humboldt-Universität, Berlin, Germany, November 1996.

8. Improving predictions for the continuum limit of quenched QCD spectroscopy. Invited seminar given at the University of Zürich, Switzerland, July 1997.

9. Improving Lattice Gauge Theory. Invited seminar given at the University of Utah, January 1998.

10. QCD with Large Number of Flavors. Invited talk given at the mini-workshop "Hot non-perturbative particle physics", April 24 – 25, 1998, Copenhagen, Denmark.

11. Improved Discretization Schemes for Lattice Field Theories. "ZiF-Colloquium" given on Mai 14, 1998, at the University of Bielefeld, Germany.

12. Spectral Flow of the Wilson-Dirac Operator, Overlap Fermions and Topology. Invited seminar given at:

University of Zürich, Switzerland, Mai 1998.
DESY, Hamburg, Germany, Mai 1998.

13. Progress with Chiral Fermions on the Lattice. Invited seminar given at:
    University of Zürich, Switzerland, July 1999.
    University of Utah, January 2000.

14. Topology and Chiral Symmetry in QCD with Overlap Fermions. Invited talk given at the mini-workshop "Hot non-perturbative particle physics", October 15, 1999, Copenhagen, Denmark.

15. Some Results from Lattice QCD Simulations. Invited seminar given at Jefferson Lab, Newport News, VA, November 1999.

16. Overlap Fermions for QCD: Topology and Chiral Symmetry Breaking. Invited talk given at the mini-workshop on "New Developments in Lattice Gauge Theory", April 4 – 5, 2000, Adelaide, Australia.

17. Numerical Techniques for Overlap Fermions. Invited talk given at the mini-workshop on "New Developments in Lattice Gauge Theory", April 4 – 5, 2000, Adelaide, Australia.

18. Chiral Symmetry on the Lattice: Recent Progress. Invited seminar given at:
    University of Graz, Austria, June 2000.
    University of Vienna, Austria, June 2000.
    Institute of Mathematical Sciences, Chennai, India, August 2000.
    Niels Bohr Institute, Copenhagen, Denmark, October 2000.

19. Lattice Quantum Chromo-Dynamics. Colloquium given on August 30, 2000, at the Tata Institute of Fundamental Research, Mumbai, India.

20. Lattice Quantum Chromo-Dynamics. Colloquium given on March 5, 2001, at San Francisco State University, San Francisco, CA.

21. B-physics: What can Lattice Gauge Theory contribute? Colloquium given on June 27, 2001, at the University of Wuppertal, Germany.

22. Chiral Symmetry on the Lattice: Recent Theoretical Progress and Practical Applications. Invited talk given at the INT program "Lattice QCD and Hadron Phenomenology", Dec 3, 2001, at the University of Washington, Seattle, WA.

23. Lattice Quantum Chromo-Dynamics. Colloquium given on January 7, 2002, at Mississippi State University, Starkville, MS.

24. QCD Thermodynamics with improved Staggered Quarks. Invited seminar given at:
    University of Utah, January 2002.
    Brookhaven National Laboratory, April 2002.
    SUNY Stony Brook, November 2002.

25. Thermodynamics Simulations with improved Staggered Quarks. Invited talk given at the ETC* International Meeting on "Non-Perturbative Aspects of QCD", July 8–19, 2002, Trento, Italy.

26. Phase diagram of finite temperature QCD with improved staggered fermions. Invited talk given at the RIKEN workshop "Lattice QCD at Finite Tmperature and Denisty", Brookhaven National Laboratory, February 2004.

27. Light hadrons with imporved staggered quarks: approaching the continuum limit. Invited seminar given at Brookhaven National Laboratory, March 2004.

28. Light hadrons in 2+1 flavor lattice QCD. Invited seminar given at:
    RIKEN Theory Seminar, Brookhaven National Laboratory, October 2004.
    KITP program "Modern Challenges for Lattice Field Theory", Santa Barbara, January 200