

## Curriculum vitae di Andrea Pelissetto.

Posizione accademica: Professore associato, Università di Roma “La Sapienza” (dal 1 novembre 1998).

### Attività didattica

- Anno accademico 1987-88: Esercitazioni di Istituzioni di Fisica Teorica.
- Anno accademico 1991-92: Esercitazioni di Fisica Superiore.
- Anno accademico 1992-93: Esercitazioni di Fisica Superiore.
- Anno accademico 1994-95: Esercitazioni di Fisica Superiore.
- Anni accademici 1995-98: Esercitazioni di Istituzioni di Fisica Nucleare e Sub-nucleare.
- Anno accademico 1997-98: Titolare del corso Relatività I.
- Anni accademici 1998-2002: Titolare del corso di Fisica per la laurea quinquennale in Scienze Biologiche.
- Anni accademici 2002-2006: Titolare del corso di Fisica I (4 CFU) e del corso di Fisica II (3 CFU) per la laurea triennale in Scienze Biologiche.
- Anno accademico 2006-2007: Titolare dei corsi di Meccanica Classica (5 CFU), di Meccanica dei Sistemi Continui (5 CFU), di Complementi di Meccanica Classica (2 CFU), di Complementi di Meccanica dei Sistemi Continui (2 CFU) per i corsi di laurea in Fisica ed in Fisica ed Astrofisica (triennali).
- Anno accademico 2007-2008: Titolare del corso di Meccanica (10 CFU) e di Complementi di Meccanica (2 CFU), per i corsi di laurea in Fisica ed in Fisica ed Astrofisica (triennali).
- Anno accademico 2008-2009: Titolare del corso di Meccanica (12 CFU), per i corsi di laurea in Fisica ed in Fisica ed Astrofisica (triennali).
- Autore con Valeria Ferrari, Claudio Luci e Carlo Mariani di un testo di Fisica Generale per i corsi di laurea della facoltà di Ingegneria, Farmacia e corsi annuali di Fisica. Il primo volume “Fisica: Meccanica e Termodinamica” è apparso nel 2008, il secondo volume è previsto per l'estate 2009. Il testo è pubblicato dalla casa editrice Idelson-Gnocchi, Napoli.

- Tutore di Martino De Prato, dottorando presso l'Università di Roma Tre (XVI Ciclo), che ha presentato una tesi dal titolo: “Field-theoretical analysis of the critical behavior of some condensed-matter systems”,
- Relatore esterno di Bortolo Matteo Moggetti (relatore interno: Sergio Caracciolo), dottorando presso l'Università di Milano (XIX Ciclo), che ha presentato una tesi dal titolo: “Infrared Divergences in the Large- $N$  Expansion”.

## Attività di ricerca

Campi di ricerca:

- Comportamento critico di sistemi magnetici;
- Meccanica statistica dei sistemi disordinati;
- Teoria dei campi applicata a sistemi statistici;
- Fisica dei sistemi polimerici;
- Teorie quantistiche di campo nella regolarizzazione del reticolo.

## Relazioni su invito.

- Ho tenuto un ciclo di lezioni su *Metodi Monte Carlo* alla Scuola Estiva di Fisica Teorica, Parma, Settembre 1992 (lezioni raccolte in Ref. [39]).
- Relatore al Congresso italiano di Fisica Teorica, Cortona giugno 1995.
- Relatore al Workshop “Asymptotic Freedom”, castello di Ringberg, maggio 1996.
- Relatore al workshop “Algorithms for Dynamical Critical Phenomena”, Lione, Francia, giugno 1996, organizzato dal CECAM (Centre Europeen de Calcul Atomique et Moleculaire).
- Ho tenuto un ciclo di lezioni dal titolo *Monte Carlo Methods in Physics: Foundations and Algorithms* alla “First Coimbra School of Computational Physics”, Portogallo, 23-28 Settembre 1999.
- Seminario su invito alla “2001 International Euroconference on High-Energy Physics”, Budapest, Luglio 2001.
- Relatore su invito al convegno “Fundamental Problems and New Perspectives in Thermodynamics,” Udine, Febbraio 2002.
- Ho tenuto un ciclo di lezioni su *Metodi Monte Carlo* alla Scuola Estiva di Fisica Teorica. Parma, Settembre 2002.
- Relatore su invito al Simposio “SYRS – Renormalization and Scaling” al 69esimo Jahrestagung della Deutsche Physikalische Gesellschaft, Berlino, 4 – 9 Marzo 2005.
- Relatore su invito al Convegno “Counting Complexity”, in onore di A.J. Guttmann, Dunk Island, Queensland, Australia, Luglio 2005.
- Relatore su invito alla Spring School “Monte Carlo Simulations of Disordered Systems”, Leipzig, 30 Marzo – 4 Aprile 2008.

- Relatore su invito al Workshop “Multicritical Behaviour of Spin Glasses and Quantum Error Correcting Codes”, Tokyo Institute of Technology, Tokyo, 17 – 19 Novembre 2008.

### **Contributi su invito.**

Ho contribuito ad un volume speciale di *Annals of Combinatorics* su “Combinatorics and Statistical Mechanics” (Ref. 86), agli atti di una conferenza in onore del 60esimo compleanno di H. E. Stanley (Ref. 123), ad un libro dedicato a Hagen Kleinert per il suo 60esimo compleanno (Ref. 105), ad un volume speciale di *Journal of Statistical Physics* per il 70esimo compleanno di G. Jona Lasinio (Ref. 134), ad un volume speciale di *Condensed Matter Physics* in onore del 60esimo compleanno di R. Folk (Ref. 151), agli atti di un convegno in onore del 60esimo compleanno di A. J. Guttmann (Ref. 160), a un volume speciale di *Journal of Statistical Physics* in onore del 60esimo compleanno di G. Parisi e del 70esimo compleanno di E. Brézin (Ref. 190). Ho scritto in collaborazione un lavoro di rassegna sulle proprietà critiche di sistemi classici (Ref. 108).

### **Attività di referee**

Svolgo attività di referee per European Physical Journal B, Journal of Chemical Physics, Journal of High-Energy Physics, Journal of Physics A, Journal of Physics: Condensed Matter, Journal of Statistical Physics, Nuclear Physics B, Physica A, Physica B, Physical Review B, Physical Review D, Physical Review E e Physical Review Letters.

Ho valutato programmi di ricerca per le seguenti agenzie governative: Fondecyt, Fondo Nacional de Desarrollo Científico y Tecnológico (Cile), FWF, Fonds zur Förderung der Wissenschaftlichen Forschung (Austria), NSERC, Natural Sciences and Engineering Research Council of Canada (Canada).

### **Attività editoriali**

Sono membro dal 2006 dell’Advisory Panel di Journal of Physics A.

## Lista delle pubblicazioni.

- 1) P. Menotti and A. Pelissetto, *Reflection Positivity and Graviton Doubling in Euclidean Lattice Gravity*, *Annals of Physics* **170** (1986) 287–309.
- 2) P. Menotti and A. Pelissetto, *Poincaré, de Sitter and Conformal Gravity on the Lattice*, *Physical Review* **D35** (1987) 1194–1204.
- 3) P. Menotti and A. Pelissetto, *Poincaré, de Sitter and Conformal Gravity on the Lattice*, in *Proceedings of the XXIII International Conference on High Energy Physics, Berkeley, July 1986*, S. C. Locken ed. (World Scientific, Singapore, 1987) pag. 581–583.
- 4) P. Menotti and A. Pelissetto, *Gauge Invariance and Functional Integration Measure in Lattice Gravity*, *Nuclear Physics* **B288** (1987) 813–831.
- 5) S. Caracciolo and A. Pelissetto, *Analysis of the Critical Behaviour of de Sitter Quantum Gravity on a Hypercubic Lattice*, *Physics Letters* **193B** (1987) 237–240.
- 6) M. Campostrini, G. Curci and A. Pelissetto, *Can a Non-Local Lattice Fermion Formulation Avoid the Doubling Problem?*, *Physics Letters* **193B** (1987) 279–282.
- 7) P. Menotti and A. Pelissetto, *General Proof of the Osterwalder-Schrader Positivity for the Wilson Action*, *Communications in Mathematical Physics* **113** (1987) 369–373.
- 8) S. Caracciolo, P. Menotti and A. Pelissetto, *Lattice Supergravity and Graviton - Gravitino Doubling*, *Nuclear Physics* **B296** (1988) 868–876.
- 9) S. Caracciolo and A. Pelissetto, *Phases and Topological Structures of de Sitter Lattice Gravity*, *Nuclear Physics* **B299** (1988) 693–718.
- 10) A. Pelissetto, *Lattice Non-Local Chiral Fermions*, *Annals of Physics* **182** (1988) 177–187.
- 11) S. Caracciolo and A. Pelissetto, *Nonperturbative Lattice Gravity*, in *Proceedings of the Conference “Field Theory on the Lattice”, Seillac, September 1987*, *Nuclear Physics* **B4** (Proc. Suppl.) (1988) 78–82.
- 12) A. Pelissetto, *Inconsistency of Non-Local Chiral Fermions on the Lattice*, in *Proceedings of the Conference “Field Theory on the Lattice”, Seillac, September 1987*, *Nuclear Physics* **B4** (Proc. Suppl.) (1988) 515–518.
- 13) P. Menotti and A. Pelissetto, *Osterwalder-Schrader Positivity for the Wilson Action*, in *Proceedings of the Conference “Field Theory on the Lattice”, Seillac, September 1987*, *Nuclear Physics* **B4** (Proc. Suppl.) (1988) 644–648.
- 14) S. Caracciolo, G. Curci, P. Menotti and A. Pelissetto, *The Energy-momentum Tensor on the Lattice: the Scalar Case*, *Nuclear Physics* **B309** (1988) 612–624.
- 15) S. Caracciolo and A. Pelissetto, *A Numerical Investigation about the Quantum Measure in Lattice Gravity*, *Physics Letters* **207B** (1988) 468–470.
- 16) S. Caracciolo, G. Curci, P. Menotti and A. Pelissetto, *Definition of the Energy-momentum Tensor on the Lattice*, in *Proceedings of the “VIII National Meeting of General Relativity and Gravitational Physics”, Cavalese, September 1988*, (World Scientific, Singapore, 1989).
- 17) S. Caracciolo, A. Pelissetto and A. D. Sokal, *Performance of New Monte Carlo Algorithms for Self-Avoiding Walks with Fixed Endpoints*, in *Proceedings of the “1988 Symposium on Field Theory on the Lattice”, Batavia, September 1988*, *Nuclear Physics* **B9** (Proc. Suppl.) (1989) 525–528.

- 18) S. Caracciolo, G. Curci, P. Menotti and A. Pelissetto, *The Energy-momentum Tensor on the Lattice*, in *Proceedings of the “1988 Symposium on Field Theory on the Lattice”*, Batavia, September 1988, *Nuclear Physics B* **9** (Proc. Suppl.) (1989) 604–608.
- 19) S. Caracciolo, G. Curci, P. Menotti and A. Pelissetto, *Renormalization of the Energy-momentum Tensor and the Trace Anomaly in Lattice QED*, *Physics Letters* **228B** (1989) 375–378.
- 20) S. Caracciolo, G. Curci, P. Menotti and A. Pelissetto, *The Energy-momentum Tensor for Lattice Gauge Theories*, *Annals of Physics* **197** (1990) 119–153.
- 21) S. Caracciolo, A. Pelissetto and A. D. Sokal, *Non-Local Monte Carlo Algorithm for Self-Avoiding Walks with Fixed Endpoints*, *Journal of Statistical Physics* **60** (1990) 1–53.
- 22) S. Caracciolo and A. Pelissetto, *From Lattice Gauge Theories Towards Gravity*, in *Proceedings of the Summer School “Probabilistic Methods in Quantum Field Theory and Quantum Gravity”*, Cargèse, 21-27 August 1989, (Plenum Press, New York, 1990) pag. 37–54.
- 23) S. Caracciolo, G. Curci, P. Menotti and A. Pelissetto, *The Trace Anomaly and the Energy-momentum Tensor in Lattice Gauge Theories*, in *Proceedings of the “International Europhysics Conference on High Energy Physics”*, Madrid, 6-13 September 1989, *Nuclear Physics B* **16** (Proc. Suppl.) (1990) 557–558.
- 24) S. Caracciolo, G. Curci, P. Menotti and A. Pelissetto, *The Restoration of Poincaré invariance and the Energy-momentum Tensor in Lattice Gauge Theories*, in *Proceedings of the “1989 Symposium on Field Theory on the Lattice”*, Isola di Capri, September 1989, N. Cabibbo et al. eds., *Nuclear Physics B* **17** (Proc. Suppl.) (1990) 611–614.
- 25) S. Caracciolo, A. Pelissetto and A. D. Sokal, *Monte Carlo Test of a Hyperscaling Relation for the Two-Dimensional Self-Avoiding Walk. II.*, *Journal of Physics A: Mathematical and General* **23** (1990) 4509-4517.
- 26) S. Caracciolo, A. Pelissetto and A. D. Sokal, *Universal Distance Ratios for Two-Dimensional Self-Avoiding Walks: Corrected Conformal-Invariance Predictions*, *Journal of Physics A: Mathematical and General*, **23** (1990) L969–L974.
- 27) S. Caracciolo, G. Ferraro and A. Pelissetto, *Criticality of Self-Avoiding Walks with an Excluded Infinite Needle*, *Journal of Physics A: Mathematical and General*, **24** (1991) 3625–3639.
- 28) S. Caracciolo, P. Menotti and A. Pelissetto, *One-Loop Conserved Energy-Momentum Tensor for Lattice QCD*, in *Proceedings of the “1990 International Conference on Lattice Field Theory”*, Tallahassee, October 1990, *Nuclear Physics B* **20** (Proc. Suppl.) (1991) 36–39.
- 29) S. Caracciolo, A. Pelissetto and A. D. Sokal, *Non-Local Monte Carlo Algorithm for Self-Avoiding Walks with Variable Length and Free Endpoints*, in *Proceedings of the “1990 International Conference on Lattice Field Theory”*, Tallahassee, October 1990, *Nuclear Physics B* **20** (Proc. Suppl.) (1991) 68–71.
- 30) S. Caracciolo, R. G. Edwards, A. Pelissetto and A. D. Sokal, *Generalized Wolff-Type Embedding Algorithms for Non-Linear  $\sigma$ -Models*, in *Proceedings of the “1990 International Conference on Lattice Field Theory”*, Tallahassee, October 1990, *Nuclear Physics B* **20** (Proc. Suppl.) (1991) 72–75.
- 31) S. Caracciolo, A. Pelissetto and A. D. Sokal, *Dynamic Critical Exponent of the BFACF Algorithm for Self-Avoiding Walks*, *Journal of Statistical Physics* **63** (1991) 857–865, special volume dedicated to Jerry Percus.

- 32) S. Caracciolo, P. Menotti and A. Pelissetto, *Analytic Determination at One Loop of the Energy-Momentum Tensor for Lattice QCD*, *Physics Letters* **260B** (1991) 401–406.
- 33) S. Caracciolo, A. Pelissetto and A. D. Sokal, *Join-and-Cut Algorithm for Self-Avoiding Walks with Variable Length and Free Endpoints*, *Journal of Statistical Physics* **67** (1992) 65–111.
- 34) S. Caracciolo, P. Menotti and A. Pelissetto, *One-Loop Analytic Computation of the Energy-Momentum Tensor for Lattice Gauge Theories*, *Nuclear Physics* **B375** (1992) 195–239.
- 35) S. Caracciolo, R. G. Edwards, A. Pelissetto and A. D. Sokal, *Dynamic Critical Behaviour of Wolff Algorithm for  $RP^N$   $\sigma$ -Models*, in *Proceedings of the “1991 International Conference on Lattice Field Theory”*, Tsukuba, November 1991, *Nuclear Physics* **B26** (Proc. Suppl.) (1992) 595–597.
- 36) S. Caracciolo, P. Menotti and A. Pelissetto, *Analytic Determination of Dimension-Four Composite Operators in QCD*, in *Proceedings of the “1991 International Conference on Lattice Field Theory”*, Tsukuba, November 1991, *Nuclear Physics* **B26** (Proc. Suppl.) (1992) 409–411.
- 37) S. Caracciolo, R. G. Edwards, A. Pelissetto and A. D. Sokal, *Wolff-Type Embedding Algorithms for General Non-Linear  $\sigma$ -Models*, *Nuclear Physics* **B403** (1993) 475–541.
- 38) S. Caracciolo, R. G. Edwards, A. Pelissetto and A. D. Sokal, *Possible Failure of Asymptotic Freedom in Two-dimensional  $RP^2$  and  $RP^3$   $\sigma$ -Models*, in *Proceedings of the “1992 International Conference on Lattice Field Theory”*, Amsterdam, September 1992, *Nuclear Physics* **B30** (Proc. Suppl.) (1993) 815–818.
- 39) A. Pelissetto, *Introduction to the Monte Carlo Method in Elementary Particles*, *Quantum Fields and Statistical Mechanics*, *Lectures at the Summer School in Theoretical Physics*, Parma 1991 - 1993, 111.
- 40) S. Caracciolo, R. G. Edwards, A. Pelissetto and A. D. Sokal, *New Universality Classes for Two-Dimensional  $\sigma$ -Models* *Physical Review Letters* **71** (1993) 3906–3909.
- 41) S. Caracciolo, A. Pelissetto and A. D. Sokal, *A General Limitation on Monte Carlo Algorithms of Metropolis Type*, *Physical Review Letters* **72** (1994) 179–182.
- 42) S. Caracciolo and A. Pelissetto, *Lattice Perturbation Theory for  $O(N)$ -Symmetric  $\sigma$ -Models with General Nearest-Neighbour Action. I. Conventional Perturbation Theory*, *Nuclear Physics* **B420** (1994) 141–183.
- 43) S. Caracciolo, R. G. Edwards, A. Pelissetto and A. D. Sokal, *New Universality Classes for Two-Dimensional  $\sigma$ -Models*, in *Proceedings of the “1993 International Conference on Lattice Field Theory”*, Dallas, October 1993, *Nuclear Physics* **34** (Proc. Suppl.) (1994) 129–134.
- 44) S. Caracciolo, A. Pelissetto and A. D. Sokal, *Analytic Results for Mixed  $O(N)/RP^{N-1}$   $\sigma$ -Models in Two Dimensions*, in *Proceedings of the “1993 International Conference on Lattice Field Theory”*, Dallas, October 1993, *Nuclear Physics* **34** (Proc. Suppl.) (1994) 683–685.
- 45) S. Caracciolo, G. Parisi and A. Pelissetto, *Random Walks with Short-Range Interaction and Mean-Field Behaviour*, *Journal of Statistical Physics* **77** (1994) 519–543.
- 46) S. Caracciolo, R. G. Edwards, S. J. Ferreira, A. Pelissetto and A. D. Sokal, *Extrapolating Monte Carlo Simulations to Infinite Volume: Finite-Size Scaling at  $\xi/L \gg 1$* , *Physical Review Letters* **74** (1995) 2969–2972.
- 47) S. Caracciolo, R. G. Edwards, A. Pelissetto and A. D. Sokal, *Asymptotic Scaling in the Two-Dimensional  $O(3)$   $\sigma$ -Model at Correlation Length  $10^5$* , *Physical Review Letters* **75** (1995) 1891–1894.



- 48) S. Caracciolo, R. G. Edwards, A. Pelissetto and A. D. Sokal, *Two-Dimensional  $O(3)$   $\sigma$ -Model up to Correlation Length  $10^5$* , in *Proceedings of the “1994 International Conference on Lattice Field Theory”*, Bielefeld, October 1994, *Nuclear Physics B***442** (Proc. Suppl.) (1995) 752–754.
- 49) S. Caracciolo, R. G. Edwards, S. J. Ferreira, A. Pelissetto and A. D. Sokal, *New Method for the Extrapolation of Finite-Size Data to Infinite Volume*, in *Proceedings of the “1994 International Conference on Lattice Field Theory”*, Bielefeld, October 1994, *Nuclear Physics B***442** (Proc. Suppl.) (1995) 749–751.
- 50) S. Caracciolo and A. Pelissetto, *Four-Loop Perturbative Expansion for the Lattice  $N$ -Vector Model*, *Nuclear Physics B***455** [FS] (1995) 619–645.
- 51) M. Campostrini, A. Pelissetto, P. Rossi and E. Vicari, *Four-point Renormalized Coupling Constant in  $O(N)$  Models*, *Nuclear Physics B***459** (1996) 207–242.
- 52) A. Cucchieri, T. Mendes, A. Pelissetto and A.D. Sokal, *Continuum Limits and Exact Finite-Size-Scaling Functions for One-Dimensional  $O(N)$ -Invariant Spin Models*, *Journal of Statistical Physics* **86** (1997) 581–673.
- 53) M. Campostrini, A. Pelissetto, P. Rossi and E. Vicari, *Four-point Renormalized Coupling Constant in  $O(N)$  Models*, *Proceedings of the “1995 International Conference on Lattice Field Theory”*, Melbourne, July 1995, *Nuclear Physics B***447** (Proc. Suppl.) (1996) 751–754.
- 54) M. Campostrini, A. Pelissetto, P. Rossi and E. Vicari, *Strong-Coupling Expansion of Lattice  $O(N)$   $\sigma$ -Models*, *Proceedings of the “1995 International Conference on Lattice Field Theory”*, Melbourne, July 1995, *Nuclear Physics B***447** (Proc. Suppl.) (1996) 755–758.
- 55) M. Campostrini, A. Cucchieri, T. Mendes, A. Pelissetto, P. Rossi,  
 • A. D. Sokal and E. Vicari, *Application of the  $O(N)$ -Hyperspherical Harmonics to the Study of the Continuum Limits of One-Dimensional  $\sigma$ -Models and to the Generation of High-Temperature Expansions in Higher Dimensions*, *Proceedings of the “1995 International Conference on Lattice Field Theory”*, Melbourne, July 1995, *Nuclear Physics B***447** (Proc. Suppl.) (1996) 759–762.
- 56) G. Mana, T. Mendes, A. Pelissetto and A. D. Sokal, *Dynamic Critical Behavior of Multi-Grid Monte Carlo for Two-Dimensional Nonlinear  $\sigma$ -Models*, *Proceedings of the “1995 International Conference on Lattice Field Theory”*, Melbourne, July 1995, *Nuclear Physics B***447** (Proc. Suppl.) (1996) 796–799.
- 57) S. Caracciolo, R. G. Edwards, T. Mendes, A. Pelissetto and A. D. Sokal, *Comparison between Theoretical Four-Loop Predictions and Monte Carlo Calculations in the Two-Dimensional  $N$ -Vector Model for  $N = 3, 4, 8$* , *Proceedings of the “1995 International Conference on Lattice Field Theory”*, Melbourne, July 1995, *Nuclear Physics B***447** (Proc. Suppl.) (1996) 763–766.
- 58) S. Caracciolo, R. G. Edwards, A. Pelissetto and A. D. Sokal, *Reply to Comment on “Asymptotic Scaling in the Two-Dimensional  $O(3)$   $\sigma$ -Model at Correlation Length  $10^5$ ”*, *Physical Review Letters* **76** (1996) 1179.
- 59) M. Campostrini, A. Pelissetto, P. Rossi and E. Vicari, *A Strong-Coupling Analysis of Two-Dimensional  $O(N)$   $\sigma$ -Models with  $N \geq 3$  on Square, Triangular and Honeycomb Lattices*, *Physical Review D***54** (1996) 1782–1808.
- 60) G. Mana, A. Pelissetto and A. D. Sokal, *Asymptotic Scaling in the Two-Dimensional  $SU(3)$   $\sigma$ -Model at Correlation Length  $4 \times 10^5$* , *Physical Review D***54** (1996) R1252–R1255.
- 61) M. Campostrini, A. Pelissetto, P. Rossi and E. Vicari, *A Strong-Coupling Analysis of Two-Dimensional  $O(N)$   $\sigma$ -Models with  $N \leq 2$  on Square, Triangular and Honeycomb Lattices*, *Physical Review B***54** (1996) 7301–7317.

- 62) G. Burgio, S. Caracciolo and A. Pelissetto, *Algebraic Algorithm for the Computation of One-Loop Feynman Diagrams in Lattice QCD with Wilson Fermions*, Nuclear Physics **B478** (1996) 687–719.
- 63) T. Mendes, A. Pelissetto and A. D. Sokal, *Multi-Grid Monte Carlo via XY Embedding: General Theory and Two-Dimensional  $O(N)$ -Symmetric Non-Linear  $\sigma$ -Models*, Nuclear Physics **B477** (1996) 203–270.
- 64) S. Caracciolo and A. Pelissetto, *Corrections to Finite-Size Scaling in Two-Dimensional  $O(N)$   $\sigma$ -Models*, Proceedings of the “1996 International Conference on Lattice Field Theory”, St. Louis, June 1996, Nuclear Physics **B53** (Proc. Suppl.) (1997) 693–695.
- 65) G. Burgio, S. Caracciolo and A. Pelissetto, *How to Compute One-Loop Feynman Diagrams in Lattice QCD with Wilson Fermions*, Proceedings of the “1996 International Conference on Lattice Field Theory”, St. Louis, June 1996, Nuclear Physics **B53** (Proc. Suppl.) (1997) 794–796.
- 66) M. Campostrini, A. Pelissetto, P. Rossi and E. Vicari, *Critical Behavior of the Correlation Function of 3-Dimensional  $O(N)$ -Models in the Symmetric Phase*, Proceedings of the “1996 International Conference on Lattice Field Theory”, St. Louis, June 1996, Nuclear Physics **B53** (Proc. Suppl.) (1997) 690–692.
- 67) S. Caracciolo, M.S. Causo and A. Pelissetto, *Universality of Subleading Exponents Induced by One-Dimensional Defects: the Case of Self-Avoiding Walks*, Proceedings of the School “The Physics of Complex Systems”, CXXXIV Course of the International School of Physics E. Fermi, Varenna, June 1996, 673 (IOS Press, Amsterdam, 1997).
- 68) S. Caracciolo and A. Pelissetto, *Comparing Different Improvement Programs for the  $N$ -Vector Model*, Physics Letters **B402** (1997) 335–340.
- 69) G. Mana, A. Pelissetto and A. D. Sokal, *Multigrid Monte Carlo via XY Embedding. II. Two-Dimensional  $SU(3)$  Principal Chiral Model*, Physical Review **D55** (1997) 3674–3741.
- 70) M. Campostrini, A. Pelissetto, P. Rossi and E. Vicari, *Critical Limit and Anisotropy in the Two-Point Correlation Function of Three-Dimensional  $O(N)$  Models*, Europhysics Letters **38** (1997) 577–582.
- 71) M. Campostrini, A. Pelissetto, P. Rossi and E. Vicari, *On the Evaluation of Universal Nonperturbative Constants in  $O(N)$   $\sigma$ -Models*, Physics Letters **B402** (1997) 141–146.
- 72) S. Caracciolo, M. S. Causo and A. Pelissetto, *Universality of Subleading Corrections for Self-Avoiding Walks in the Presence of One-Dimensional Defects*, Journal of Physics A: Mathematical and General, **30** (1997) 4939–4961.
- 73) S. Caracciolo, M. S. Causo and A. Pelissetto, *High-Precision Determination of the Critical Exponent  $\gamma$  for Self-Avoiding Walks*, Physical Review **E57** (Rapid Communications) (1998) R1215–R1218.
- 74) M. Campostrini, A. Pelissetto, P. Rossi and E. Vicari, *The Two-Point Correlation Function of Three-Dimensional  $O(N)$  Models: The Critical Limit and Anisotropy*, Physical Review **E57** (1998) 184–210.
- 75) S. Caracciolo, A. Montanari and A. Pelissetto, *Improved Actions for the Two-Dimensional  $\sigma$ -Model*, Proceedings of the “1997 International Conference on Lattice Field Theory”, Edinburgh, July 1997, Nuclear Physics **B63** (Proc. Suppl.) (1998) 916–918.
- 76) S. Caracciolo, M. S. Causo and A. Pelissetto, *Monte Carlo Results for Three-Dimensional Self-Avoiding Walks*, Proceedings of the “1997 International Conference on Lattice Field Theory”, Edinburgh, July 1997, Nuclear Physics **B63** (Proc. Suppl.) (1998) 652–654.

- 77) S. Capitani, S. Caracciolo, A. Pelissetto and G. C. Rossi, *High-Precision Computation of Two-Loop Feynman Diagrams with Wilson Fermions*, Proceedings of the “1997 International Conference on Lattice Field Theory”, Edinburgh, July 1997, Nuclear Physics **B63** (Proc. Suppl.) (1998) 802–804.
- 78) A. Pelissetto and E. Vicari, *Four-Point Renormalized Coupling Constant and Callan-Symanzik  $\beta$ -Function in  $O(N)$  Models*, Nuclear Physics **B519** [FS] (1998) 626–660.
- 79) A. Pelissetto and E. Vicari, *The Effective Potential in Three-Dimensional  $O(N)$  Models*, Nuclear Physics **B522** [FS] (1998) 605–624.
- 80) S. Caracciolo and A. Pelissetto, *Corrections to Finite-Size Scaling in the Lattice  $N$ -Vector Model for  $N = \infty$* , Physical Review **D58** (1998) 105007 p. 1–31.
- 81) A. Pelissetto, P. Rossi and E. Vicari, *Crossover Scaling from Classical to Nonclassical Critical Behavior*, Physical Review **E58** (1998) 7146–7150.
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