Curriculum Vitae

Professor Emeritus Ferdinando Mancini

Name: Ferdinando Mancini

Place and date of birth: Naples (Italy), 4 June 1941

Citizenship: Italian

Home address: 84134 Salerno, viale dei Tigli 16, Italy

Present position

2012 – up to date Professor Emeritus of Structures of Matter
Dipartimento di Fisica "E.R. Caianiello"
Università degli Studi di Salerno
Via Giovanni Paolo II, 132 I-84084 Fisciano (SA) Italy

2012 – up to date President of the International Institute for Advanced Scientific Studies
"Eduardo R. Caianiello" (IIASS)
Via G. Pellegrino n. 19
84019 Vietri sul Mare (SA) Italy

Position

(1980 – 2011):

Full professor of Structure of Matter, University of Salerno.

(1/11/1976 - 31/10/1980) *Associated Professor*, Faculty of Science, University of Salerno, teaching:
- Structure of Matter,
- Physics II

(1/11/1972 - 31/10/1976) *Assistant Professor*, Faculty of Science, University of Salerno, teaching:
- Solid State Physics,
- Physics I,
-Thermodynamics

(1/11/1971- 31/10/1972) *Assistant Professor* of Physics II, Faculty of Engineering, University of Naples

(1/11/1968 - 31/10/1971) *Research Assistant*, Wisconsin University – Milwaukee, USA

(1966 - 1968) *Fellowship*, Istituto di Fisica Teorica, University of Naples

Other teaching positions:

(1984 to 2011) *Professor*, Graduate School, University of Salerno

(1/11/1982 - 31/10/1987) *Temporary Professor*, Faculty of Science, University of Salerno, teaching:
- Physics I,
- General Physics I,
- Solid State Physics,

- High Energy Physics

(1/11/1972 - 31/10/1984) *Appointed Professor* of Condensed Matter Physics, Scuola di Perfezionamento in Scienze Cibernetiche e Fisiche, University of Salerno.

Degrees:

Degree in Physics, University of Naples - Italy, 1966

PhD in Physics, University of Wisconsin, Milwaukee – USA, 1971

Other Qualifications:

March 1972, Researcher qualification, Istituto Nazionale di Fisica Nucleare, level R5

Overseas Research Activities

1997 *Visiting Scientist* for 1 month, Department of Physics, University of Hyderabad, Hyderabad, India

1991 *Visiting Scientist* for 1 month, Department of Physics, University of Tohoku, Sendai, Japan

1984, 1983, 1982, 1981 *Visiting Scientist* for 2 months, Department of Physics, University of Alberta, Canada

March - September 1980 *Visiting Scientist*, Department of Physics, University of Alberta, Canada

September 1976 - March 1978 *Visiting Scientist*, Department of Physics, University of Alberta, Canada

1972, 1973, 1974 *Visiting Scientist* for 2 months, Department of Physics, University of Wisconsin, Milwaukee, USA

National and International Scientific Collaborations

-Delegate for Italy in the "Management Committee" of the COST Action P 16 "Emergent Behaviour in Correlated Matter /ECOM) from September 2006 to December 2009

-Local Coordinator of "Effetti quantistici in sistemi a stato solido di bassa dimensionalità" COFIN 2000-2002

Participants: Florence, Naples, Salerno, Genoa, Turin, Catania

-Coordinator of "Low lying excitations in Strongly Correlated Electronic Systems" Project PAIS INFM 2001-2003

Participants: University of Salerno (Italy), Rutgers University (USA)

-International Coordinator of "Strongly correlated systems low dimensions and fractional charge" INTAS Project n. 97-11066 1998-2000

Participants: University of Salerno, Kurchatov Institute (Mosow), Dresden University, JINR (Dubna), IHPP (Moscow)

-Local Coordinator of "Sistemi correlati quantistici in bassa dimensionalit" COFIN 1998-2000
Participants: Florence, Naples, Salerno, Genoa, Turin, Catania

-International Coordinator of "Marginal Electronic Liquids" INTAS Project n. 95-0591 1996-1998
Participants: University of Salerno, Kurchatov Institute (Mosow), Dresden University, JINR (Dubna), IHPP (Moscow)

Scientific Editorial

Member of the Editorial Board of the Journal of Physical Studies.

Supervisor of Graduate Students in Physics

Dr. G. Sica, dr. G. Scelza, dr. R. Rubele, dr. R. Munzner, dr. V. Fiorentino, dr. A. Avella, dr. D. Villani, dr. T. Di Matteo, dr. S. Marra, dr. A. Allega, dr. C. Noce

Supervisor of Post-doc research associates

Dr. E. Plekhanov, dr. A. Naddeo, dr. S. Krivenko, dr. M. Bak, dr. E. Zasinas, dr. V. Turkowski, dr. N. Perkins, dr. M.d.M. Sanchez-Lopez, dr. V. Oudovenko, dr. S.Odashima, dr. T. Saikawa

Academic Positions

From 01.01.84 to 31.10.89: *Chairman of the Department of Theoretical Physics*, University of Salerno
From 01.11.82 to 31.10.92: *Member of the Board of Governors*, University of Salerno
From 19.01.88 to 12.06.92: *President of the University Scientific Commission*, University of Salerno
From 01.11.89 to 12.09.93: *President of the Undergraduate Board in Physics*, University of Salerno
From 01.11.93 to 31.10.96: *Director of the Graduate School 1993-1995*, University of Salerno
From 01.11.93 to 31.12.02: *President of the Computer Centre*, University of Salerno
From 01.01.01to 31.12.06 : *Chairman of the Department of Physics "E.R. Caianiello"*, University of Salerno

Main Research Topics

Quantum Field Theory,
Condensed Matter Physics (Highly correlated Systems, Superconductivity, Ferromagnetism, Heavy-Fermion Systems),
Statistical Mechanics.

Organization of Conferences and Courses

XIX Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 05-16 October 2015

XVIII Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 06-17 October 2014

XVII Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 01-12 October 2012

XVI Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 03-14 October 2011

XV Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 04 - 15 October 2010

XIV Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 05- 16 October 2009

XIII Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 06 - 17 October 2008

XII Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 01 - 12 October 2007

XI Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 02 - 13 October 2006

X Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 03 - 14 October 2005

IX Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 04 - 15 October 2004

VIII Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 06 - 17 October 2003

VII Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 14 - 25 October 2002

VI Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 8 - 19 October 2001

V Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 30 October - 10 November 2000

IV Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 11 - 22 October 1999

III Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 14 - 26 September 1998

II Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 13 - 25 October 1997

I Training Course in the Physics of correlated electron systems and high-Tc superconductors, Vietri 18 - 30 November 1996

Member of the International Scientific Committee of the *Summer Institute in Theoretical Physics*, Edmonton, Canada, 6 - 24 July 1987

Advances on Phase Transitions and Disorder Phenomena, Amalfi 25 - 27 June 1986

International Symposium on Quantum Field Theory, Positano 5 – 7 June 1985

Theoretical Physics Meeting, Amalfi 6 - 7 May 1983

Publication list

International Journals

1. **F. Mancini**, E. Plekhanov, G. Sica: *Exact solution of the 1D Hubbard model with NN and NNN interactions in the narrow-band limit,* Eur. Phys. J. B **86**, 408 (2013); DOI: 10.1140/epjb/e2013-40527
2. **F. Mancini**, E. Plekhanov, G. Sica: *Exact solution of the 1D Hubbard model in the atomic limit with inter-site magnetic coupling* Eur. Phys. J. B **86**, 224 (2013); DOI: 10.1140/epjb/e2013-40046-y
3. A. Avella, **F. Mancini**, F.P. Mancini, E. Plekhanov: *Emery vs. Hubbard model for cuprate superconductors: a composite operator method study* Eur. Phys. J. B **86**, 265 (2013); DOI: 10.1140/epjb/e2013-40115-3
4. **F. Mancini**, E. Plekhanov, G. Sica: *T=0 phase diagram of the 1D Hubbard model with magnetic interactions in the narrow band limit*; Cent. Eur. J. Phys. **10**, 609 (2012); DOI 10.2478/s11534-012-0017-z
5. A. Avella, **F. Mancini**, F.P. Mancini, E. Plekhanov: *Composite operator candidates for a study of the p-d Model*: J. Phys. Conf. Series **391**, 012121 (2012); DOI: 10.1088/1742-6596/391/1/012121
6. **F. Mancini**, E. Plekhanov, G. Sica: *Spin and charge orderings in the atomic limit of the U-V-J model*; J. Phys. Conf. Series, Ser. **391**, 012148 (2012)
7. A. Avella, **F. Mancini**, G. Sica: *A 4-pole approach to the Hubbard model within the Composite Operator Method*; J. Phys. Conf. Ser. **391**, 012151 (2012)
8. E. Plekhanov, A. Avella, **F. Mancini**, F.P. Mancini: *Correlation-induced band suppression in the two-orbital Hubbard model*; J. Phys. Conf. Series **273**, 012147 (2011)
9. A. Avella, **F. Mancini**, F.P. Mancini, E. Plekhanov: *Relationship between band populations and band structure in the three-band Hubbard model*; J. Phys. Conf. Series **273**, 012091 (2011)
10. A. Avella, **F. Mancini**, F. P. Mancini, E. Plekhanov: *Single-particle dispersion of the 2D pd model*; J. Phys. Chem. Sol. **72**, 384 (2011)
11. A. Avella, **F. Mancini**, F. P. Mancini, E. Plekhanov: *Filling and temperature dependence of the spin susceptibility of the two-dimensional Hubbard model in the superconducting d-wave phase*; J. Phys. Chem. Sol. **72**, 362 (2011)
12. E. Plekhanov, A. Avella, and **F. Mancini**: *The phase diagram of the extended anisotropic ferromagnetic-antiferromagnetic Heisenberg chain*; Eur. Phys. J. B **77**, 381 (2010)
13. A. Avella, **F. Mancini**, E. Plekhanov: *Analysis of the magnetic response of the edge-sharing chain cuprate Li2CuO2 with TMRG;* Journal of Physics Conference Series **200**, 022047 (2010) DOI: 10.1088/1742-6596
14. A. Avella, **F. Mancini**, E. Plekhanov: *COM framework for d-wave superconductivity in the2D Hubbard model*; Physica C: Superconductivity, **470**, 930 (2010)

15. **F. Mancini**, F.P. Mancini: *Different orderings in the narrow-band limit of the extended Hubbard model on the Bethe lattice*; Eur. Phys. J. B **73**, 581 (2010)
16. **F. Mancini**: *Phase transitions in Ising Chains?*; AIP, Conf. Proc, **1198**, 95 (2009)
17. A. Avella, **F. Mancini**: *Strong antiferromagnetic correlations effects on the momentum distribution function of the Hubbard model*; J. Phys. Condens. Matter **21**, 254209 (2009)
18. E. Plekhanov, A. Avella, **F. Mancin**i: *T=0 phase diagram of 1D extended anisotropic spin-1/2 Heisenberg model*; J. Phys. Conf. Series **145**, 012063 (2009)
19. F.P. Mancini, **F. Mancini**: *Extended Hubbard model in the presence of a magnetic field*; Eur. Phys. J. B **68**, 341 (2009)
20. **F. Mancini**, F.P. Mancini, A. Naddeo: *Role of the attractive intersite interaction in the extended Hubbard model*; Eur. Phys. J. B **68**, 309 (2009)
21. A. Avella, **F. Mancini**, E. Plekhanov: *XXZ-like phase in the F-AF anisotropic Heisenberg chain*; Eur. Phys. J. B **66**, 295 (2008)
22. **F. Mancini**, F.P. Mancini: *Magnetic and thermal properties of a one-dimensional spin-1 model*; Condens. Matter Phys. **11**, 543 (2008)
23. **F. Mancini**, F.P. Mancini: *One-dimensional extended Hubbard model in the atomic limit*; Phys. Rev. E **77**, 061120 (2008)
24. **F. Mancini**, F.P. Mancini, A. Naddeo: *Exact solution of the extended Hubbard model in the atomic limit on the Bethe lattic*e; J. Opt. Adv. Mat. **10**, 1688 (2008)
25. **F. Mancini**, F.P. Mancini, A. Naddeo: *Inhomogeneous charge ordering of a spinless fermionic system on the Bethe lattice*; J. Opt. Adv. Mat. **10**, 1694 (2008)
26. A. Avella, **F. Mancini**, E. Plekhanov: *Entanglement in the F-AF zig-zag Heisenberg chain*; J. Opt. Adv. Mat. **10**, 1675 (2008)
27. A. Avella, **F. Mancini**, G. Scelza, S. Chaturvedi: *Entanglement properties and phase diagram of the two-orbital atomic Hubbard model*; Acta Phys. Pol. A **113**, 417 (2008)
28. A. Avella, **F. Mancini:** *Anomalous self-energy features in the 2D Hubbard model*; Acta Phys. Pol. A **113**, 395 (2008)
29. E. Plekhanov, A. Avella, **F. Mancini**: *Frustration-dr.iven QPT in the 1D extended anisotropic Heisenberg model*; Acta Phys. Pol. A **113**, 429 (2008)
30. E. Plekhanov, A. Avella, **F. Mancin**i: *Entanglement in the 1D extended anisotropic Heisenberg model*; Physica B **403**, 1282 (2008)
31. A. Avella, **F. Mancini**: *The 2D Hubbard model and the pseudogap: a COM (SCBA) study*; J.Phys.: Condens. Matter **19**, 255209 (2007)
32. A. Avella, **F. Mancini**: *Underdoped cuprate phenomenology in the two-dimensional Hubbard model within the composite operator method*; Phys. Rev. B **75**, 134518 (2007)
33. A. Avella, **F. Mancini**: *Pseudogap opening in the 2D Hubbard model within COM (SCBA)*; Physica C **460**, 1096 (2007)
34. **F. Mancini**, A. Naddeo: *Fermionic systems with charge correlations on the Bethe lattice*; Physica C **460-462**, 1053 (2007)
35. A. Avella, **F. Mancini**, S. Odashima, G. Scelza: *The two-orbital Hubbard model and the OSMT*; Physica C **460-462**, 1068 (2007)
36. E. Plekhanov, A. Avella, **F. Mancini**: *Ergodicity of the extended anisotropic 1D Heisenberg model: response at low temperatures*; Journ. Magn. & Magn. Materials **310**, e480 (2007).
37. S. Odashima, **F. Mancini**: *Inter-orbital excitation modes in the two orbital Hubbard model*; Journ. Magn. & Magn. Materials **310**, e292 (2007)

38. A. Avella, **F. Mancini**, E. Plekhanov: *Non-Fermi liquid behavior in the 2D Hubbard model within COM (SCBA)*; Journ. Magn. & Magn. Materials **310**, 999 (2007)
39. **F. Mancini**, A. Naddeo: *Equations of motion approach to the spin 1/2 Ising model on the Bethe lattice*; Phys. Rev. E **74**, 061108 (2006)
40. A. Avella, **F. Mancini,** E. Plekhanov: *Ergodicity in strongly correlated systems*; Condens. Matter Phys. **9**, 485 (2006)
41. **F. Mancini,** A. Avella: *Green's function formalism for highly correlated systems*; Condens. Matter Phys. **9**, 569 (2006)
42. E. Plekhanov, A. Avella, **F. Mancini**: *Non-ergodic dynamics of the extended anisotropic Heisenberg chain*; Phys. Rev. B **74**, 115120 (2006)
43. A. Avella, **F. Mancini**: *Exact solution of the one-dimensional spin 3/2 Ising model in magnetic field*; Eur. Phys. J. B **50**, 527 (2006)
44. A. Avella, **F. Mancini**: *Phase diagrams of half-lled 1D and 2D extended Hubbard model within COM*; J. Phys. Chem. Sol. **67**, 142 (2006)
45. **F. Mancini**: *A class of solvable models in Condensed Matter Physics*; Condens. Matter Phys**. 9**, 393 (2006)
46. A. Avella, **F. Mancini**: *Study of the spin-3/2 Hubbard-Kondo lattice model by means of the Composite Operator Method;* Physica B **378**, 700 (2006)
47. A. Avella, **F. Mancini**: *Charge ordering in the extended Hubbard model in the ionic limit*; Physica B **378**, 311 (2006)
48. S. Odashima, A. Avella, **F. Mancini**: *Analysis of thermodynamic quantities in the Hubbard model by means of the Composite Operator Method*; Physica B **378**, 313 (2006)
49. S. Odashima, A. Avella, **F. Mancini**: *High-order correlation effects in the two-dimensional Hubbard model*; Phys. Rev. B **72**, 205121 (2005)
50. **F. Mancini**: *The extended Hubbard model in the ionic limit*; Eur. Phys. J. B **47**, 527 (2005)
51. **F. Mancini**: *New perspectives on the Ising model*; Eur. Phys. J. B **45**, 497 (2005)
52. **F. Mancini**: *Fermionic systems with charge correlations*; Europhys. Lett. **70**, 485 (2005)
53. S. Krivenko, A. Avella, **F. Mancini**, N. Plakida: *SCBA within Composite Operator Method for the Hubbard model*; Physica B **359**, 666 (2005)
54. S. Odashima, A. Avella, **F. Mancini**: *4-pole analysis of the two dimensional Hubbard model*; Physica B 359, 663 (2005)
55. Y. Izyumov, N. Chaschin, D. Alexeev, **F. Mancini**: *A generating* functional approach to the Hubbard model; Eur. Phys. J. B **45**, 69 (2005)
56. **F. Mancini**, A. Avella: *The Hubbard model within the equations of motion approach*; Adv. Phys. **53**, 537 (2004)
57. A. Avella, **F. Mancini**: *The Hubbard model with intersite interaction within the Composite Operator Method*; Eur. Phys. J. B **41**, 149 (2004)
58. A. Avella, **F. Mancini**, S. Odashima: *Effects of two-site composite excitations in the Hubbard model*; Journ. Magn. & Magn. Materials **272**, E311 (2004)
59. A. Avella, S. Krivenko, **F. Mancini**, N. Plakida: *Self-energy corrections to the electronic spectrum of the Hubbard model*; Journ. Magn.& Magn. Materials **272**, 456 (2004)
60. A. Avella, **F. Mancini**: *The charge and spin sectors of the t-t`-U Hubbard model*; Physica C **408**, 284 (2004)
61. A. Avella, **F. Mancini**: *The Hubbard model: bosonic excitations and zero-frequency constants*; Physica C **408**, 287 (2004)
62. A. Avella, **F. Mancini**, R. Hayn: *The energy-scale-dependent composite operator method for the single-impurity Anderson model*; Eur. Phys. J. B **37**, 465 (2004)

63. A. Avella, **F. Mancini**: *A theoretical analysis of the magnetic properties of LaCuO*; Eur.Phys. J. B 32, 27 (2003)
64. A. Avella, **F. Mancini**, V. Turkowski: *Bosonic sector of the two-dimensional Hubbard model studied within a two-pole approximation*; Phys. Rev. B **67**, 115123 (2003)
65. A. Avella, **F. Mancini**, S. Odashima: *Effects of two-site correlations in the Hubbard model*; Physica C **388**, 76 (2003)
66. A. Avella, F. Mancini: *New comparisons for local quantities of the two-dimensional Hubbard model*; Int. J. Mod. Phys. B **17**, 554 (2003)
67. A. Avella, S. Krivenko, **F. Mancini**: *Two-scale analysis of the Hubbard model*; Physica B **329**, 955 (2003)
68. A. Avella, **F. Mancini**, R. Hayn: *The composite operator Method for impurity models*; Acta Phys. Pol. B **34**, 1345 (2003)
69. A. Avella, **F. Mancini**: *The 2D Mott-Hubbard transition in presence of a parallel magnetic field*; Acta Phys. Pol. B **34**, 811 (2003)
70. M. Bak, A. Avella, **F. Mancini**: *Non-ergodicity of the 1D Heisenberg model*; Phys. Sta. Sol. (b) **236**, 396 (2003)
71. A. Avella, **F. Mancini**, T. Saikawa: *The 2-site Hubbard and t-J models*; Eur. Phys. J. B **36**,445 (2003)
72. **F. Mancini**, A. Avella: *Equation of motion method for composite field operators*; Eur. Phys. J. B **36**, 37 (2003)
73. A. Avella, S. Feng, **F. Mancini**: *The 2D t-J model: a proposal for an analytical study*; Physica B **312**, 537 (2002)
74. M. Bak, **F. Mancini**: *A self-consistent formulation of the double-exchange model*; Physica B **312**, 732 (2002)
75. A. Avella, **F. Mancini**, M.d.M. Sanchez-Lopez: *The 1D Hubbard model within the Composite Operator Method*; Eur. Phys. J. B **29**, 399 (2002)
76. **F. Mancini**, V. Turkowski: *Study of the Mott Transition in the Three-Dimensional Hubbard Model*; Acta Phys. Pol. A **101**, 505 (2002)
77. **F. Mancini**, N. Perkins, N. Plakida: *Spin-wave dispersion softening in the ferromagnetic Kondo lattice model for manganites*; Phys. Lett. A **284**, 286 (2001)
78. A. Avella, **F. Mancini**, R. Munzner: *Antiferromagnetic phase in the Hubbard model by means of the composite operator method*; Phys. Rev. B **63**, 245117 (2001)
79. V. Fiorentino, **F. Mancini**, E. Zasinas, A.F. Barabanov: *Local properties and Density of States in the two-dimensional p-d Mode*l; Phys. Rev. B **64**, 214515 (2001)
80. S. Feng, **F. Mancini**: *Exact properties of the chemical potential-density relation at finite temperature in the Hubbard model*; Int. J. Mod. Phys. B **15**, 1915 (2001)
81. A. Avella, **F. Mancini**, D. Villani, H. Matsumoto: *The two-dimensional t-t`-U model as a minimal model for cuprate materials*; Eur. Phys. J. B **20**, 303 (2001)
82. A. Avella, **F. Mancini**, R. Munzner: *Ferromagnetic order for the 2D extended Hubbard model*; Physica B **281**, 857 (2000)
83. R. Munzner, A. Avella, **F. Mancini**: *Antiferromagnetism in the 2D Hubbard model: phase transition and local quantities*; Physica B **284**, 1577 (2000)
84. V. Fiorentino, **F. Mancini**, A.F. Barabanov: *The p-d model in the four-pole approximation by composite operator method*; Physica C **284**, 1195 (2000)
85. **F. Mancini**, V. Turkowski: *Spin magnetic susceptibility in the two-layer Hubbard model*; Physica B **284**, 1575 (2000)
86. **F. Mancini**: *The Mott-Hubbard transition and the paramagnetic insulating state in the two- dimensional Hubbard model*; Europhys. Lett.**50**, 229 (2000)

87. M.d.M. Sanchez-Lopez, A. Avella, **F. Mancini**: *The van Hove scenario in the Hubbard model with correlated hopping*; Physica C **317**, 515 (1999)
88. **F. Mancini**, D. Villani: *The conductivity tensor for the Hubbard model*; Phys. Lett. A **261**, 357 (1999)
89. A. Avella, **F. Mancini**, D. Villani: *Dynamical incommensurability in the 2D Hubbard model*; Physica B **259**, 732 (1999)
90. M.d.M. Sanchez-Lopez, A. Avella, **F. Mancini**: *Charge renormalization in the 1D Hubbard model*; Physica B **259**, 753 (1999)
91. A. Avella, **F. Mancini**, M.d.M. Sanchez-Lopez, R. Sridhar: *The N-Chain Hubbard model in the Composite Operator Method*; Physica B **259**, 1056 (1999)
92. **F. Mancini**, H. Matsumoto, D. Villani: T*hermodynamics of the 2D Hubbard model*; J. Phys.Studies **3**, 474 (1999)
93. **F. Mancini**, N. Perkins, D. Villani: *A new analysis of optical excitations in the Hubbard model;* Physica B **259**, 755 (1999). DOI: 10.1016/S0921-4526(98)00869-2
94. M.d.M. Sanchez-Lopez, A. Avella, **F. Mancini**: *The half-filled Hubbard chain in the Composite Operator Method*: *A comparison with Bethe Ansatz*; Europhys. Lett. **44**, 328 (1998)
95. **F. Mancini**, A. Avella: *Symmetries in the physics of strongly correlated electronic systems*; Condens. Matter Phys. **1**, 11 (1998)
96. A. Avella, **F. Mancini**, D. Villani: *The overdoped regime in LaS2CuO*; Sol. Stat. Comm. **108**, 723 (1998)
97. A. Avella, **F. Mancini**, M.d.M. Sanchez-Lopez: *Single-particle properties of the extended Hubbard model in the Composite Operator Method*; J. Phys. Studies **2**, 232 (1998)
98. A. Avella, **F. Mancini**, M.d.M. Sanchez-Lopez, D. Villani, F. Buzatu: *Local quantities in the 1D Hubbard model in the composite operator method*; J. Phys. Studies **2**, 228 (1998)
99. **F. Mancini**: *Conservation of the spectral moments in the n-pole approximation*; Phys. Lett. A **249**, 231 (1998)
100. A. Avella, **F. Mancini**, D. Villani, L. Siurakshina, V. Yushankhai: *The Hubbard model in the two-pole approximation*; Int. J. Mod. Phys. B **12**, 81 (1998)
101. A. Avella, **F. Mancini**, D. Villani: *Incommensurate spin fluctuations in the two-dimensional t-t`-U model*; Phys. Lett. A **240**, 235 (1998)
102. **F. Mancini**, D. Villani, H. Matsumoto: *Incommensurate magnetism in cuprate materials*; Phys. Rev. B **57**, 6145 (1998)
103. **F. Mancini**, D. Villani, H. Matsumoto: *Specific heat of the two-dimensional Hubbard model* ; Physica C **282**, 1755 (1997)
104. A. Avella, **F. Mancini**, D. Villani, H. Matsumoto: *The superconducting gap in the two- dimensional Hubbard model* ; Physica C **282**, 1757 (1997)
105. H. Matsumoto, T. Saikawa, **F. Mancini**, D. Villani: *Electronic states in the t-J model*; Physica C **282**, 1773 (1997)
106. A. Avella, **F. Mancini**, D. Villani, H. Matsumoto: *Fermi surface and density of states in the two-dimensional t-t`-U model*; Physica C **282**, 1759 (1997)
107. T. Di Matteo, **F. Mancini**, H. Matsumoto, V. Oudovenko: *Singlet pairing in the 2D Hubbard model*; Physica B **230**, 915 (1997)
108. A. Avella, **F. Mancini**, H. Matsumoto, D. Villani: *Local properties in the two- dimensional t-t`-U model*; Physica B **230**, 912 (1997)
109. H. Matsumoto, **F. Mancini**: *Two-site correlation in analysis of the Hubbard model*; Phys. Rev. B **55**, 2095 (1997)
110. **F. Mancin**i: *The birth of Thermo field Dynamics*; Physics Essays **9,** 624 (1996)

111. H. Matsumoto, **F. Mancini**: *Electronic state in the 2D Hubbard mode*l; Czecho. J. Phys.**46**, 1869 (1996)
112. **F. Mancini,** H. Matsumoto, D. Villani: *Dynamical spin magnetic susceptibility in the 2D Hubbard model*; Czecho. J. Phys. **46**, 1871 (1996)
113. **F. Mancini**, V. Oudovenko, D. Villani: *Magnetic properties of the two-band singlet-hole model for the copper-oxides plane*; Czecho. J. Phys. **46**, 1873 (1996)
114. H. Matsumoto, T. Saikawa, **F. Mancini**: *Temperature dependence of electronic states in the t-J model*; Phys. Rev. B **54**, 14445 (1996)
115. **F. Mancini**, M. Marinaro, H. Matsumoto: *Some properties of the positive-U and negative-U Hubbard model*; Int. J. Mod. Phys. B **10**, 1717 (1996)
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