

Curriculum Vitae

Surname: Civitarese

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Official Address: Department of Physics. University of La Plata- c.c.67
(1900) La Plata. Argentina.

Degree: Ph.D of the University of La Plata. Argentina. 1974.

PostDoctoral experience

-Niels Bohr Institute. Copenhagen. Denmark. 1975-1978.

-Kernforchunsanlage Julich. Institut fur Kernphysik.1978-1980

Academic Experience

-Adjoint Professor of the Dept of Physics. Univ.of La Plata (1979/1985)

-Full Professor of Theoretical Physics.Dept of Physics. Univ.of La Plata
(since 1986).

Visiting Professorships

-Institut fur Theoretische Physik. University of Tübingen. Germany. December 1985/april 1986, december 1986/february 1987,april 1990/april 1991,

-California Institute of Technology.Pasadena. USA.june/july 1987,

-Dept of Physics.University of Iowa.USA.dec 1988/march 1989.

-Department of Physics. University of Jyväskylä. Feb-march 1998, 2000,

-Professor of Excellence at the RCNP. Universidad de OSAKA, january-march 1999.

-University of Jyväskylä. Feb-march 2001/03/04/05/06/07/08/09/10/11/12/13

Research Experience:

-Member of the Scientific Research Council of Argentina (since 1980-continued) (actual position: Investigador Superior)

-Senior Associate Member of the ICTP (UNESCO, Trieste)

-Affiliate of the INT-Seattle.USA.

-Affiliate of the ECT*(Trento).

Administrative Experience:

-Chairman of the Department of Physics. University of La Plata. 1987-1988

-Chairman of the Department of Physics. University of La Plata. 2006-2007

-Member of the Advisory Committee for Physics, National Research Council (1988,1989).

-Member of the Evaluation Committee for Universities (CONEAU) of Argentina (2005,2006)

-Member of the Joint Committee of the State Research Council (CI-CPBA) (since 2001-continued)

-CO-responsible of the ANDES Project

Honors and mentions:

1)Summa Cum Lauda University of La Plata.1974

2)Alexander von Humboldt Foundation. 1979

3)J.S.Guggenheim Foundation.1997

4)Medal Bernanrdo Houssay, Secretary of Science of Argentina. 2003

5)Medal Guido Beck. Academy of Science of Argentina. 2004

6)Member of the Mexican Academy of Science (since.2005).

7)Foundation KONEX. Diploma 2013 (Physics and Astronomy).

Experience as Ph.D thesis advisor

1)Ph.D Advisor: 15 Ph.D Thesis (oriented and approved)

2)Diploma Work Advisor: 17 Diploma Thesis (oriented and approved)

List of Publications (june 2013)

List of publications in Journals (peer reviewed)

1. Structure of the odd mass Ge isotopes with a particle phonon coupling.
R.Almar, O.Civitarese, F.Krmpotic, J.Navaza.
Physical Review **C 6** (1972)187.
2. Investigation of the non unique first forbidden beta decay transition in ^{141}Cd .
O.Civitarese, F.Krmpotic, M.C.Cambiaggio, L.Szybisz.
Physical Review **C 7** (1973) 768.
3. Properties of odd mass iodine isotopes in a particle phonon coupling.
R.Almar, O.Civitarese, F.Krmpotic.
Physical Review **C 8** (1973) 1518.
4. Generalized semi-microscopic model in odd mass indium isotopes.
S.Abecasis, O.Civitarese, F.Krmpotic.
Physical Review **C 9** (1974) 2320.
5. On the coupling phenomena between the $S = 0$ and $S = 1$ charge exchange dipole modes.
O.Civitarese, F.Krmpotic, L.Szybisz.
Physics Letters **B 48** (1974) 199.
6. Interpretation of the properties of the odd mass silver isotopes in the models of De Shalit and Alaga.
O.Civitarese, F.Krmpotic.
Nuclear Physics **A 229** (1974) 133.
7. A possible test for the ground state correlations in superfluid nuclei.
O.Civitarese, A.Plastino, S.Peltier, S.Hernandez.
Lettere Nuovo Cimento **11** (1974) 596.
8. Quasiparticle phonon coupling and the beta decay to the one phonon collective state.
O.Civitarese, F.Krmpotic.
Physics Letters **B 56** (1975) 123.

9. On the beta decay $2^-(^{122}Sb) \rightarrow 2^+(^{122}Te)$.
 H.Bosch, M.C.Cambiaggio, O.Civitarese, F.Krmpotic, L.Szybisz
 Nuclear Physics **A** **272** (1976) 189.
10. Analysis of the odd mass Tc isotopes with the Alaga model
 S.Abecasis, O.Civitarese, F.Krmpotic.
 Zeitschrift fur Physik **A** **278** (1976) 309.
11. Role of the Pauli principle in the spectrum of ^{208}Pb
 O.Civitarese, R.A.Broglia, D.R.Bes
 Physics Letters **B** **72** (1977) 45.
12. On the excitation of nuclear surface modes in the deep inelastic collision of Kr on Pb.
 R.A.Broglia, O.Civitarese, C.H.Dasso , Aa.Winther
 Physics Letters **B** **73** (1978) 405.
13. Generalized lattice density waves in nuclear matter.
 O.Civitarese, A.Plastino, A.Faessler.
 Z fur Physik **A** **291** (1979) 239.
14. On the side feeding pattern and multiplicities in $^{26}Mg(^{136}Xe, 4n)^{158}Dy$.
 O.Civitarese, A.Faessler, M.Wakai.
 Physics Letters **B** **84** (1979) 404.
15. The pairing correlations and nuclear shapes at very high angular momentum.
 A.Anvari, O.Civitarese, A.Faessler.
 Nuclear Physics **A** **334** (1980) 93.
16. Skyrme HF treatment of asymmetric nuclear matter
 O.Civitarese, A.Plastino, A.Faessler.
 Zeitschrift fur Physik **A** **298** (1980) 31.
17. Perturbative treatment of nuclear rotations:three dimensional case.
 D.R.Bes, O.Civitarese, H.M.Sofia.
 Nuclear Physics **A** **370** (1981) 99.

18. Thermal HF in the thermodinamic limit:Statistical approach.
O.Civitarese, A.De Paoli, A.Plastino.
Zeitschrift fur Physik A **305** (1982) 341.
19. Lattice density waves in nuclear matter at finite temperature.
O.Civitarese, A.De Paoli, A.Plastino, M.de Llano.
Zeitschrift fur Physik A **307** (1982) 323.
20. On the Strutinsky shell correction method at finite temperature
O.Civitarese, A.De Paoli, A.Plastino.
Zeitschrift fur Physik A **309** (1982) 177.
21. Renormalization of the axial vector coupling constant
by the charge conserving fields:cancellation effects.
O.Civitarese, F.Krmpotic.
Physics Letters B **122** (1983) 121.
22. Non local effects induced by the particle vibration coupling.
O.Civitarese, R.P.J.Perazzo, S.L.Reich, M.Saraceno.
Zeitschrift fur Physik A **311** (1983) 135.
23. Temperature dependent shell corrections:Numerical estimates for the
lead region.
O.Civitarese, A.De Paoli, A.Plastino.
Zeitschrift fur Physik A **311** (1983) 317.
24. Multistep nature of heavy ion fusion reactions.
O.Civitarese, B.V.Carlson, M.S.Hussein, A.Szanto de Toledo.
Physics Letters B **125** (1983) 22.
25. The giant quadrupole resonance in highly excited rotating nuclei.
O.Civitarese, S.Furui, M.Ploszjaczack, A.Faessler.
Nuclear Physics A **408** (1983) 61.
26. Thermal aspects of the pairing correlations in finite nuclei.
O.Civitarese, G.G.Dussel, R.P.J.Perazzo.
Nuclear Physics A **404** (1983) 15.
27. Pairing correlations at high spin and finite temperature: a modified
BCS approach.

O.Civitarese, A.Plastino, A.Faessler.
Journal of Physics **G 9** (1983) 1063.

28. On clustering effects and phase instabilities in high energy nuclear collisions.
O.Civitarese, A.Plastino.
Zeitschrift fur Physik **A 313** (1983) 139.
29. Pairing effects at finite temperature and finite rotational frequency:an exactly soluble model.
O.Civitarese, A.Plastino, A.Faessler.
Zeitschrift fur Physik **A 313** (1983) 197.
30. Particle vibration coupling effects in ^{211}At .
O.Civitarese, O.A.Rosso.
Zeitschrift fur Physik **A 315** (1984) 333.
31. On the temperature dependence of the nuclear response.
O.Civitarese, R.A.Broglia, C.H.Dasso.
Annals of Physics **156** (1984) 142.
32. Theoretical description of the $1/2(693KeV)3/2$ first forbidden beta decay transition in ^{111}Ag .
O.Civitarese, O.A.Rosso.
Zeitschrift fur Physik **A 317** (1984) 201.
33. A reformulation of the perturbative treatment of a system of fermions in a deformed basis.
V.Alessandrini, D.R.Bes, O.Civitarese, M.T.A.Mehr.
Physics Letters **B 148** (1984) 395.
34. Modified BCS treatment of pairing correlations in ^{240}Pu at high spin and finite temperature.
O.Civitarese, M.Faber, H.Markum, A.Plastino.
Nuclear Physics **A 438** (1985) 318.
35. The nuclear level density parameter and temperature dependent effects in finite nuclei.
O.Civitarese, A.De Paoli.
Nuclear Physics **A 440** (1985) 480.

36. Temperature dependent effects and statistical gamma ray multiplicities in the $^{147}Sm(3He, a)^{146}Sm$ reaction.
 O.Civitarese, A.De Paoli.
Zeitschrift fur Physik A **321** (1985) 473.
37. Finite temperature effects and phase transitions in the pairing force problem:variational approach.
 G.Bozzolo, O.Civitarese.
Physical Review C **32** (1985) 2111.
38. The dinucleus:a doorway to heavy ion fusion.
 M.Hussein, B.V.Carlson, O.Civitarese, A.Szanto de Toledo.
Physical Review Letters **54** (1985) 2659.
39. Two particle transfer reactions leading to giant pairing resonances.
 M.Herzog, O.Civitarese, L.Ferreira, R.J.Liotta, T.Vertse, L.Sibanda.
Nuclear Physics A **448** (1986) 441.
40. Collective effects induced by the charge exchange vibrational fields on $0^- \rightarrow 0^+$ and $2^- \rightarrow 0^+$ first forbidden beta decay transitions.
 O.Civitarese, F.Krmotic, O.A.Rosso.
Nuclear Physics A **453** (1986) 45.
41. Multistep compound model of heavy ion fusion.
 B.V.Carlson, O.Civitarese, M.S.Hussein, A.Szanto de Toledo.
Annals of Physics **169** (1986) 167.
42. Pairing effects at finite temperature:fermionic and bosonic contributions to the specific heat of the nucleus.
 F.Alasia, O.Civitarese, M.Reboiro.
Physical Review C **35**(1987) 812.
43. Spin and orbital contributions to collective M1 transitions in $^{46,48}Ti$.
 R.Nojarov, A.Faessler, O.Civitarese.
Physics Letters B **183**(1987) 122.
44. Excitation energies and intensities of $\lambda^\pi = 0^-, 2^-$ charge exchange modes in spherical nuclei.
 O.Civitarese, O.A.Rosso.
Zeitschrift fur Physik A **327** (1987) 51.

45. Temperature dependent effects upon statistical particle and gamma ray emission from a compound nucleus.
G.Batko, O.Civitarese, A.De Paoli.
Zeitschrift fur Physik A **327**(1987) 323.
46. On the temperature dependence of the level density parameter and its effects upon neutron evaporation spectra.
G.Batko, O.Civitarese, A.De Paoli.
Zeitschrift fur Physik A **327**(1987) 329.
47. Compound nucleus temperatures from particle and gamma ray emissions:effects due to the temperature dependence of the level density parameter.
G.Batko, O.Civitarese, A.De Paoli.
Physical Review C **36** (1987) 435.
48. Suppression of the two neutrino double beta decay.
O.Civitarese, A.Faessler, T.Tomoda.
Physics Letters B **194** (1987) 11.
49. Vibrational modes at finite temperature : restoring force and mass parameters for multipole excitations.
F.Alasia, O.Civitarese, M.Reboiro.
Physical Review C **36** (1987) 2555.
50. Theoretical description of low lying 1^+ states in deformed nuclei.
O.Civitarese, A.Faessler, R.Nojarov.
Physical Review C **35** (1987) 2310.
51. Application of Gamow resonances in continuum nuclear spectra.
T.Vertse, P.Curuchet, O.Civitarese, L.Ferreira, R.J.Liotta.
Physical Review C **37** (1988) 876.
52. Nuclear Stratosphere formation and its effects upon statistical particle emission processes.
G.Batko, O.Civitarese.
Physical Review C **37** (1988) 2647.
53. Temperature dependent shell effects in ^{16}O and ^{40}Ca with a realistic effective hamiltonian.

G.Bozzolo, O.Civitarese, J.P.Vary.
Physical Review **C 37** (1988) 1240

54. Shell model and QRPA treatments of double beta decay.
J.Engel, P.Vogel, O.Civitarese, M.Zirnbauer.
Physics Letters **B 208** (1988) 187.
55. Symmetry restoring treatment of the pairing hamiltonian in the quasi-particle representation.
O.Civitarese, M.C.Licciardo.
Physical Review **C 38** (1988) 967.
56. Comparison of effective hamiltonians in symmetry restoring methods:intrinsic collective excitations in deformed nuclei.
O.Civitarese, M.C.Licciardo.
Physical Review **C 39**(1989) 1550.
57. Linear response treatment of nuclear excitations at finite temperature.
F.Alasia, O.Civitarese, M.Reboiro.
Physical Review**C 39**(1989) 1012.
58. On the formation of a nuclear stratosphere at finite temperature.
O.Civitarese, G.Bozzolo, J.P.Vary.
Physics Letters **B 219** (1989) 161.
59. Identification of projectile sequential decay and transfer reemission reaction channels in the $^{16}O + ^{27}Al$ systems at 4-5 MeV/A.
N.C.Filho, N.Added, R.Anjos, M.Coimbra, L.Fonte, M.Figueira,
D.Gimaraes, E.M.Szanto de Toledo, O.Civitarese.
Physical Review **C 40** (1989) 91.
60. Universality of temperature dependent effects in many-fermion systems.
O.Civitarese, G.G.Dussel, A.Zuker.
Physical Review **C 40** (1989) 2900.
61. Comparison between effective Hamiltonians in symmetry restoring theories: intrinsic excitations in superfluid nuclei.
O.Civitarese and M.C.Licciardo.
Physical Review **C 41** (1990) 1778.

62. Renormalized particle-particle and particle-hole RPA correlations at finite temperature: effects upon the nuclear level density parameter,
 O.Civitarese, A.G.Dumrauf and M.Reboiro
 Physical Review **C 41** (1990) 1785.
63. Structure of symmetry restoring interactions: modified BCS plus rotational approach for a schematic mode space.
 O.Civitarese and M.C.Licciardo
 Zeitschrift fur Physik **A 335** (1990) 279.
64. Finite temperature random phase approximation with the inclusion of scattering terms.
 F.Alasia, O.Civitarese
 Physical Review **C 42** (1990) 1335 .
65. Ground state correlations in the BCS treatment of a monopole pairing Hamiltonian.
 O.Civitarese, A.L.De Paoli.
 Zeitschrift fur Physik **A 337** (1990)377.
66. Suppression of the two neutrino double beta decay:particle number projected results.
 O.Civitarese, A.Faessler, J.Suhonen, X.R.Wu
 Physics Letters **B 251** (1990) 333.
67. Quadrupole pairing effects upon the structure of low-lying 2+ states in Zn isotopes.
 O.Civitarese, O.A.Rosso.
 Zeitschrift fur Physik **A 338** (1991) 389.
68. Suppression of the two neutrino double beta decay in a particle number projected quasiparticle random phase approximation.
 O.Civitarese, A.Faessler, J.Suhonen, X.R.Wu
 Nuclear Physics **A 524** (1991) 404.
69. Effect of pairing on breathing mode and nuclear matter compressibility.
 O.Civitarese, A.G.Dumrauf, M.Reboiro ,P.Ring, M.M.Sharma
 Physical Review **C 43** (1991) 2622.

70. Nuclear structure calculation of the two neutrino double beta decay transition $^{100}Mo \rightarrow ^{100}Ru$
 O.Civitarese, A.Faessler, J.Suhonen, X.R.Wu
Journal of Physics G **17** (1991) 943.
71. Single β^+ decay in ^{26}Mg : a comparison between shell model and quasiparticle random phase approximation.
 O.Civitarese,H.Muther,L.D.Skouras and A.Faessler
Journal of Physics G **17** (1991) 1363.
72. Differential cross sections for DCX reactions on $^{76}Ge, ^{128,130}Te$ in a particle number projected BCS + QRPA approach.
 O.Civitarese, A.Faessler and W.K.Kaminski
Journal of Physics G **17** (1991) 1407.
73. Pair density fluctuations in a number projected BCS approximation.
 O.Civitarese, A.Faessler and M.C.Licciardo
Zeitschrift fur Physik A **341** (1992) 261.
74. Description of the $0^+ \rightarrow 0^+$ neutrinoless double beta decay transition in ^{76}Ge : particle number projected quasiparticle random phase approximation.
 J.Suhonen, O.Civitarese and A.Faessler.
Nuclear Physics A **543** (1992) 645.
75. Symmetry breaking of the Galilean invariance in superfluid nuclei and its connection with quadrupole pairing interactions
 O.Civitarese, A.Faessler and M.C.Licciardo
Nuclear Physics A **542** (1992) 221.
76. Calculation of the beta decay of $^{114-120}Pd$: quasiparticle random phase approximation results
 J.Suhonen and O.Civitarese
Physics Letters B **280** (1992) 191.
77. Particle-vibration coupling in a basis with resonant states
 O.Civitarese, A.G.Dumrauf and R.J.Liotta
Physical Review C **47** (1993) 1060 .

78. Thermo Field Dynamics in the treatment of the nuclear pairing problem at finite temperature.
 O. Civitarese and A. L. De Paoli
Zeitschrift fur Physik A **344** (1993) 243
79. On the use of summation methods in nuclear double beta decay processes
 O.Civitarese, J.Suhonen
Physical Review C **47** (1993) 2410
80. Effects due to temperature dependent nuclear binding energies on the equation of state for hot nuclear matter.
 O.G.Benvenuto,O.Civitarese and M.Reboiro
Physical Review C **47** (1993) 1981
81. Two neutrino double beta decay to excited states: the $0+$ to $2+$ decay of ^{136}Xe .
 J. Suhonen and O. Civitarese
Physics Letters B **308** (1993) 212.
82. Estimation of bounds for left-right mixing from nuclear double beta decay processes.
 J. Suhonen and O. Civitarese
Physics Letters B **312** (1993) 367.
83. Study of the muon violating conversion in a nucleus by using QRPA
 T. S. Kosmas, J. D. Vergados, O. Civitarese and A. Faessler
Nuclear Physics A **570** (1994) 637.
84. Theoretical bounds for majoron emission from nuclear double beta decay processes
 J. Suhonen and O. Civitarese
Journal Physics G **20** (1994) 347.
85. Double beta decay in the pseudo SU(3) scheme
 O. Castaños, J. G. Hirsch, O. Civitarese and P. O. Hess
Nuclear Physics A **571** (1994) 276

86. Pseudo SU(3) approach to double beta decay
 J.Hirsch, O. Castaños, P.O. Hess and O. Civitarese
 Progress in Particle and Nuclear Physics **32** (1994) 333.
87. The linear $\sigma - \omega$ model in the Thermo Field Dynamics
 R.Aguirre,O.Civitarese and A.L.De Paoli.
 Nuclear Physics **A 579** (1994) 573.
88. Specific heat and shape transitions in light s-d nuclei.
 O.Civitarese and M.Schvellinger
 Physical Review **C 49** (1994) 1976.
89. QRPA analysis of the double beta decay of ^{100}Mo to the ground state and excited states of ^{100}Ru
 J.Suhonen and O.Civitarese
 Physical Review **C 49** (1994) 3055
90. Two neutrino double beta decay to excited one and two phonon states
 O.Civitarese and J. Suhonen
 Nuclear Physics **A 575** (1994) 251.
91. Perturbative treatment of the two-neutrino double beta decay to excited quadrupole states
 O.Civitarese and J. Suhonen
 Nuclear Physics A 578 (1994) 62.
92. Schematic study of perturbative effects on the two neutrino double beta decay to excited states
 O.Civitarese and J. Suhonen
 Journal Physics **G 20** (1994) 1441.
93. Correspondence between thermal dual transformations and gauge fields
 O.Civitarese, A.L.De Paoli and M.C.Rocca
 Physics Letters **B 336** (1994) 275.
94. The nuclear level density parameter and nuclear structure effects at finite temperature.
 O. Civitarese and M. Schvellinger
 Journal of Physics **G 20**(1994) 1933

95. Systematic QRPA study of beta(-) and beta(+),EC decay transitions to excited states of Cd and Sn
 J. Suhonen and O. Civitarese
 Nuclear Physics **A** **584** (1995) 449.
96. Study of the correspondence between dual thermal transformations and gauge fields.
 O. Civitarese, A. L. De Paoli and M. C. Rocca
 Nuclear Physics **A** **588**(1995) 847.
97. Double beta decay to excited states of 150Nd.
 J. Hirsch, O. Castaños, P. Hess, O. Civitarese
 Nuclear Physics **A** **589**(1995) 445.
98. Suppression of $2\nu\beta\beta$ matrix elements by the competition of spin-flip and non-spin-flip like excitations
 O. Civitarese, J. Suhonen and A. Faessler
 Nuclear Physics **A** **591** (1995)195.
99. Double beta decay of 100Mo: the deformed limit
 J.G.Hirsch, O. Castaños, P. Hess, O. Civitarese
 Physical Review **C** **51** (1995) 2252.
100. The Zimanyi and Moszkowski Model in the Thermo Field Dynamics
 R.Aguirre,O.Civitarese and A.L.De Paoli.
 Nuclear Physics **A** **597** (1996) 543.
101. $2\nu\beta\beta$ matrix elements and the competition between spin flip and non spin flip channels in realistic calculations:
 R. Aunola , O. Civitarese, J. Kauhanen and J. Suhonen
 Nuclear Physics **A** **596** (1996) 187.
102. Feeding of hole states induced by the proton decay of the GT and IAS resonances
 J. Blomqvist, O. Civitarese, E. Kirchuk, R. J. Liotta, T. Vertse
 Physical Review **C** **53** (1996) 2001.
103. Gamow States as Continuous Linear functionals over Analytical Test Functions.

C. G. Bollini, O. Civitarese, A. L. De Paoli and M. C. Rocca
Journal of Mathematical Physics **37** (1996) 4235.

104. Physical Representation of Gamow States in a Rigged Hilbert Space.
C. G. Bollini, O. Civitarese, A. L. De Paoli and M. C. Rocca
Physics Letters **B** **382** (1996) 205.
105. Contributions of Unique First-Forbidden Transitions to Two-Neutrino Double Beta Decay Half-Lives
O. Civitarese and J. Suhonen
Nuclear Physics **A** **607** (1996) 152.
106. Renormalized pnQRPA and double beta decay: a critical analysis
J. Hirsch, P. Hess and O. Civitarese
Physical Review **C** **54** (1996) 1976.
107. Temperature dependence of the nuclear binding energy, effects on the EOS for hot nuclear matter using different models
O. G. Benvenuto, O. Civitarese and M. Reboiro
Physica Scripta **55** (1997) 550
108. Double beta decay and proton neutron interactions.
J. Hirsch, P. Hess and O. Civitarese
Physics Letters **B** **390** (1997) 36.
109. Effects due to the continuum on shell corrections at finite temperatures.
N. Sandulescu, O. Civitarese, R. J. Liotta, T. Vertse
Physical Review **C** **55** (1997) 1250.
110. Single and Double beta decay Fermi transitions in an exactly solvable model.
J. Hirsch, P. Hess and O. Civitarese
Physical Review **C** **56** (1997) 199.
111. Proton-Neutron pairing effects in medium and heavy mass nuclei.
O. Civitarese and M. Reboiro
Physical Review **C** **56** (1997) 1179.

112. Neutron-Proton pairing BCS approach.
O. Civitarese, M. Reboiro and P. Vogel.
Physical Review **C 56** (1997) 1840.
113. The collapse of the proton-neutron QRPA as a signal of phase instabilities .
O. Civitarese, P. Hess and J. Hirsch
Physics Letters **B 412** (1997) 1.
114. Weak Interaction and Nuclear Structure aspects of Double Beta Decay.
J. Suhonen and O. Civitarese.
Physics Reports **300** (1998) 123.
115. Comparative study of the validity of the renormalized random phase approximation.
O. Civitarese and M. Reboiro
Physical Review **C 57** (1998) 3062.
116. Exactly solvable fermion-boson mapping representations.
O. Civitarese and M. Reboiro
Physical Review **C 57** (1998) 3055.
117. Electron Capture Decay of ^{116}In and nuclear structure of double beta decay
M. Bhattacharya, A. Garcia, M. Hindi, E. B. Norman, C. Ortiz, N. Kaloskamis, C. N. Davids, O. Civitarese and J. Suhonen
Physical Review **C 58**(1998) 1247.
118. Is the single state dominance realized in double beta decay transitions ?
O. Civitarese and J. Suhonen
Physical Review **C 58** (1998) 1535.
119. Fermion-boson interactions in a solvable model.
O. Civitarese, y M. Reboiro.
Physical Review **C 58** (1998) 2787.
120. Resonant States in the Thermo Field Dynamics.
O.Civitarese, A.L.De Paoli and M.C.Rocca.
Nuclear Physics **A 642** (1998) 531.

121. Nuclear Structure and Double Beta Decay.
 O. Civitarese.
 Progress in Particle and Nuclear Physics **40** (1998) 297.
122. Gamow States in a Rigged Hilbert Space.
 C.G.Bolini, O.Civitarese, A.L.De Paoli and M.C.Rocca.
 Lecture Notes in Physics,(Springer-Verlag) **504** (1998).
123. Spontaneous and Dynamical Breaking of Mean Field Symmetries in the pn-QRPA and the description of double beta decay transitions.
 O. Civitarese, P. H. Hess, J. G. Hirsch and M. Reboiro.
 Physical Review **C 59** (1999) 194.
124. Collective Description of Nuclear Double Beta Decay
 D. R. Bes, O. Civitarese and N. N. Scoccolla.
 Physics Letters **B 446** (1999) 93.
125. Centroids of Gamow Teller transitions at finite temperature in fp-shell neutron rich nuclei.
 O. Civitarese and A. Ray
 Physica Scripta **59** (1999) 352.
126. Systematic study of the single state dominance in $2\nu\beta\beta$ decay.
 O. Civitarese and J. Suhonen
 Nuclear Physics **A 653** (1999) 321.
127. The extended pn-QRPA in a boson expansion method
 O. Civitarese, F. Montani and M. Reboiro.
 Physical Review **C 60** (1999) 024305.
128. Boson Mapping at Finite Temperature: An application to the Thermo Field Dynamics
 O. Civitarese and M. Reboiro
 Physical Review **C 60** (1999) 034302.
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