

List of Publications of Roberto Casalbuoni

List of Papers on Physics Journals

1. R. Casalbuoni, R. Gatto and G. Longhi, The vector and axial $N - N^*$ vertices: calculation from the Ward identity and the sidewise dispersion relations, *Nuovo Cimento* **62A** (1969) 319.
2. R. Casalbuoni, R. Gatto and G. Longhi, Algebraic realizations of families of indefinitely rising trajectories, *Lettere al Nuovo Cimento* **2** (1969) 159.
3. R. Casalbuoni, R. Gatto and G. Longhi, Indefinitely rising trajectories and Gell-Mann's program, *Lettere al Nuovo Cimento* **2** (1969) 166.
4. R. Casalbuoni and G. Longhi, A non-local infinite component wave equation with a physical mass spectrum, *Nuovo Cimento* **70A** (1970) 329.
5. R. Casalbuoni, R. Gatto and G. Longhi, Families of indefinitely rising trajectories and Gell-Mann's program, *Phys. Review* **3D** (1971) 1499.
6. R. Casalbuoni, A Duffin-Kemmer-like wave equation for dual free mesons, *Lettere al Nuovo Cimento* **2** (1971) 641.
7. R. Casalbuoni and G. Longhi, Completeness of the solutions of a wave equation with a linear mass spectrum, *Nuovo Cimento* **15A** (1973) 591.
8. R. Casalbuoni and J. Gomis, Light-cone quantization of dual models and structure functions, *Nuovo Cimento* **15A** (1973) 625.
9. R. Casalbuoni, J. Gomis and G. Longhi, The relativistic point revisited in the light of the string model, *Nuovo Cimento* **24A** (1974) 249.
10. R. Casalbuoni and G. Longhi, A geometrical model for nonhadrons and its implications for hadrons, *Nuovo Cimento* **25A** (1975) 482.
11. R. Casalbuoni, G.Domokos and S.Kövesi-Domokos, Algebraic approach to the quark model, *Nuovo Cimento* **31A** (1976) 423.
12. R. Casalbuoni, D. Dominici and G. Longhi, On the second quantization of a composite model for nonhadrons, *Nuovo Cimento* **32A** (1976) 265.
13. R. Casalbuoni, On the quantization of systems with anticommuting variables, *Nuovo Cimento* **33A** (1976) 115.
14. R. Casalbuoni, Relativity and supersymmetries, *Phys. Letters* **62B** (1976) 49.

15. R. Casalbuoni, The classical mechanics for Bose-Fermi systems, *Nuovo Cimento* **33A** (1976) 389.
16. R. Casalbuoni, G. Domokos and S. Kövesi-Domokos, Colored supersymmetries, *Nuovo Cimento* **33A** (1976) 432.
17. A. Barducci, R. Casalbuoni and L. Lusanna, Supersymmetries and the pseudoclassical relativistic electron, *Nuovo Cimento* **35A** (1976) 377.
18. A. Barducci, R. Casalbuoni and L. Lusanna, Pseudoclassical and quantum Foldy-Wouthuysen transformation for an electron interacting with a non homogeneous magnetic field, *Phys. Letters* **64B** (1976) 319.
19. A. Barducci, R. Casalbuoni and L. Lusanna, Classical scalar and spinning particles interacting with external Yang-Mills fields, *Nucl. Physics* **B124** (1977) 93.
20. A. Barducci, R. Casalbuoni and L. Lusanna, Classical spinning particle interacting with external gravitational fields, *Nucl. Physics* **B124** (1977) 521.
21. A. Barducci, F. Buccella, R. Casalbuoni, L. Lusanna and E. Sorace, Quantized Grassmann variables and unified theories, *Phys. Letters* **67B** (1977) 344.
22. A. Barducci, F. Buccella, R. Casalbuoni, L. Lusanna and E. Sorace, Fermi oscillators for vector-like unified theories with unitary groups, *Lettere al Nuovo Cimento* **19** (1977) 335.
23. A. Barducci, R. Casalbuoni and L. Lusanna, A possible interpretation of theories involving Grassmann variables, *Lettere al Nuovo Cimento* **19** (1977) 581.
24. R. Casalbuoni, G. Domokos and S. Kövesi-Domokos, Internal symmetries and ghost symmetries: models on Hermitean spheres, *Phys. Review* **D17** (1978) 2048.
25. R. Casalbuoni, G. Domokos and S. Kövesi-Domokos, A new class of solutions to classical Yang-Mills equations, *Phys. Letters* **81B** (1979) 34.
26. A. Barducci, R. Casalbuoni and L. Lusanna, Dirac brackets for a dynamical system with redundant constraints, *Lettere al Nuovo Cimento* **25** (1979) 129.
27. A. Barducci, R. Casalbuoni and L. Lusanna, Energy momentum tensor of extended relativistic systems, *Nuovo Cimento* **54A** (1979) 340.
28. R. Casalbuoni and R. Gatto, Unified description of quarks and leptons, *Phys. Letters* **88B** (1979) 306.

29. R. Casalbuoni, V. Rittenberg and S. Yankielowicz, Self-duality conditions for spin systems defined on a new class of nonabelian solvable finite groups, Nucl. Physics (FS1) **B170** (1980) 139.
30. R. Casalbuoni and R. Gatto, Unified theories for quarks and leptons based on Clifford algebras, Phys. Letters **90B** (1980) 81.
31. R. Casalbuoni and R. Gatto, Subcomponent models of quarks and leptons, Phys. Letters **93B** (1980) 47.
32. F. Bordi and R. Casalbuoni, Dirac propagator from path integral quantization of the pseudoclassical spinning particle, Phys. Letters **93B** (1980) 308.
33. A. Barducci, R. Casalbuoni and L. Lusanna, Anticommuting variables, internal degrees of freedom and the Wilson loop, Nucl. Physics (FS2) **B180** (1981) 141.
34. R. Casalbuoni, G. Domokos and S. Kövesi-Domokos, Minimal subconstituent model of quarks and leptons, Phys. Review **D23** (1981) 462.
35. A. Barducci, F. Bordi and R. Casalbuoni, Path-integral quantization of spinning particles interacting with crossed external magnetic fields, Nuovo Cimento **64B** (1981) 287.
36. A. Barducci, R. Casalbuoni, D. Dominici and L. Lusanna, Pseudoclassical description of Weyl particles, Phys. Letters **100B** (1981) 126.
37. R. Casalbuoni and R. Gatto, Composite-component duality and baryonic number in subcomponent models for quarks and leptons, Phys. Letters **100B** (1981) 135.
38. R. Casalbuoni and R. Gatto, Composite description for quarks and leptons from a geometrical picture of complementarity, Phys. Letters **103B** (1981) 113.
39. R. Casalbuoni and R. Gatto, Search for composite models, Nucl. Physics **B199** (1982) 119.
40. R. Casalbuoni and R. Gatto, Subconstituent models satisfying 't Hooft anomaly conditions and approximate proton stability, Phys. Letters **108B** (1982) 117.
41. F. Bordi, R. Casalbuoni, D. Dominici and R. Gatto, Fermionic composite models from confining $SU(2)_L$, Phys. Letters **114B** (1982) 31.
42. F. Bordi, R. Casalbuoni, D. Dominici and R. Gatto, Fermionic composite models from complementarity, Phys. Letters **115B** (1982) 45.

43. F.Bordi, R. Casalbuoni, D. Dominici and R. Gatto, Confining model with composite left-handed and unconfined right-handed particles, Phys. Letters **117B** (1982) 219.
44. F.Bordi, R. Casalbuoni, D. Dominici and R. Gatto, Composite quarks and leptons and horizontal symmetries, Zeitschrift für Physik **C17** (1983) 179.
45. F.Bordi, R. Casalbuoni, D. Dominici and R. Gatto, A supersymmetric composite model, Phys. Letters **127B** (1983) 419.
46. R. Casalbuoni, E. Castellani and S. De Curtis, The $O(N)$ model: calculation of the effective potential for arbitrary values of N , Phys. Letters **131B** (1983) 95.
47. R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, Composite operator calculation of chiral symmetry breaking in color gauge theory, Phys. Letters **140B** (1984) 357.
48. R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, Indication for a phase with spontaneous breaking of P and CP in $SU(N)$ gauge theory with massive fermions, Phys. Letters **140B** (1984) 228.
49. R. Casalbuoni, D. Dominici and R. Gatto, Effective lagrangian description of the possible strong sector of the standard model, Phys. Letters **147B** (1984) 419.
50. A. Barducci, R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, Calculation of the pseudoscalar masses from a QCD effective potential, Phys. Letters **147B** (1984) 460.
51. R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, Dynamical symmetry breaking in QCD-like gauge theories, Phys. Letters **150B** (1985) 295.
52. R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, Effective weak interaction theory with a possible new vector resonance from a strong Higgs sector, Phys. Letters **155B** (1985) 95.
53. R. Casalbuoni and G. Pettini, Temperature effects on parity violation in an extended σ model Phys. Letters **169B** (1986) 90.
54. A. Barducci, R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, Pseudoscalar meson amplitudes in the composite operator formalism, Phys. Letters **169B** (1986) 271.
55. R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, Physical implications of possible $J=1$ bound states from strong Higgs, Nucl. Physics **B282** (1987) 235.

56. R. Casalbuoni, D. Dominici, R. Gatto and C. Giunti, Strong interacting two-doublet and doublet-singlet Higgs models, Phys. Letters **178B** (1986) 235.
57. A. Barducci, R. Casalbuoni, D. Dominici, R. Gatto and G. Pettini, Composite operator formalism at finite temperature. Application to the $O(N)$ model, Phys. Letters **179B** (1986) 275.
58. R. Casalbuoni and D. Dominici, BRST quantization of a bilocal model inspired by the relativistic string, Phys. Letters **186B** (1987) 63.
59. A. Barducci, R. Casalbuoni, D. Dominici and R. Gatto, The $IOSp(D,2|2)$ symmetry from the BRST quantization of the relativistic spinning particle, Phys. Letters **187B** (1987) 135.
60. R. Casalbuoni, D. Dominici, F. Feruglio and R. Gatto, Tree-level unitarity violation for large Higgs mass in a supersymmetric extension of the standard model, Phys. Letters **191B** (1987) 409.
61. A. Barducci, R. Casalbuoni, S. De Curtis, D. Dominici, and R. Gatto, Dynamical symmetry breaking in QCD and quark masses, Phys. Letters **193B** (1987) 305.
62. A. Barducci, R. Casalbuoni, D. Dominici and R. Gatto, $OSp(D+1,3|2)$ unifies the conformal symmetry and BRST, Phys. Letters **194B** (1987) 257.
63. R. Casalbuoni, D. Dominici, F. Feruglio and R. Gatto, Tree-level unitarity violation for large scalar mass in multi-Higgs extensions of the standard model, Nucl. Physics **B299** (1988) 117.
64. R. Casalbuoni, D. Dominici, R. Gatto and J. Gomis, Orthosymplectic unification of the Galilei group and BRST, Phys. Letters **198B** (1987) 177.
65. R. Casalbuoni, D. Dominici, F. Feruglio and R. Gatto, Testing the standard model in terms of a possible strong scalar sector, Phys. Letters **200B** (1988) 495.
66. A. Barducci, R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, Dynamical symmetry breaking and determination of quark masses, Phys. Review **D38** (1988) 238.
67. R. Casalbuoni, P. Chiappetta, D. Dominici, F. Feruglio and R. Gatto, High energy tests for a possible strong sector in the standard model Nucl. Physics **B 310** (1988) 181.
68. R. Casalbuoni, S. De Curtis, D. Dominici, F. Feruglio and R. Gatto, Vector and axial-vector bound states from a strongly interacting Higgs sector, Int. Journ. of Mod. Phys. **A4** (1989) 1065.

69. R. Casalbuoni, S. De Curtis and R. Gatto, Effective potential approach to technicolor theories with slowly running coupling constant, Nucl. Physics **B319** (1989) 367.
70. R. Casalbuoni, S. De Curtis, D. Dominici, F. Feruglio and R. Gatto, A gravitino-goldstino high-energy equivalence theorem, Phys. Letters **215B** (1988) 313.
71. R. Casalbuoni, S. De Curtis, D. Dominici, F. Feruglio and R. Gatto, When does supergravity become strong, Phys. Letters **216B** (1989) 325, and ERRATUM in Phys. Letters **229B** (1989) 439.
72. A. Barducci, R. Casalbuoni, D. Dominici and R. Gatto, Unification of BRST, Parisi-Sourlas and space-time symmetries, Int. Journ. of Mod. Phys. **A4** (1989) 3057.
73. R. Casalbuoni, S. De Curtis, D. Dominici, F. Feruglio and R. Gatto, High-energy equivalence theorem in spontaneously broken supergravity, Phys. Review **D39** (1989) 2281.
74. R. Casalbuoni, S. De Curtis, D. Dominici, F. Feruglio and R. Gatto, Non linear realization of supersymmetry algebra from supersymmetric constraint. Phys. Letters **220B** (1989) 569.
75. R. Casalbuoni, P. Chiappetta, D. Dominici, F. Feruglio and R. Gatto, Expectations from strong electroweak sector at Tevatron and $S\bar{p}pS$, Phys. Letters **224B** (1989) 233.
76. A. Barducci, R. Casalbuoni, S. De Curtis, R. Gatto and G. Pettini, Chiral symmetry breaking in QCD at finite temperature and density, Phys. Letters **231B** (1989) 463.
77. A. Barducci, R. Casalbuoni, S. De Curtis, R. Gatto and G. Pettini, Chiral phase transitions in QCD for finite temperature and density, Phys. Review **D41** (1990) 1610.
78. G. Altarelli, R. Casalbuoni, D. Dominici, F. Feruglio and R. Gatto, Z Width and branching ratios in extended gauge models, Mod. Phys. Lett. **A5** (1990) 495.
79. G. Altarelli, R. Casalbuoni, D. Dominici, F. Feruglio and R. Gatto, Testing for heavier vector bosons in e^+e^- at Z peak. A comparative study of different models, Nucl. Physics **B342** (1990) 15.
80. A. Barducci, R. Casalbuoni, S. De Curtis, R. Gatto and G. Pettini, Pion decay constant at finite temperature, Phys. Letters **240B** (1990) 429.

81. A. Barducci, R. Casalbuoni, S. De Curtis, R. Gatto and G. Pettini, Heuristic argument for coincidence or almost coincidence of deconfinement and chirality restoration in finite temperature QCD, *Phys. Letters* **244B** (1990) 311.
82. A. Barducci, R. Casalbuoni, S. De Curtis, R. Gatto and G. Pettini, Pion decay constant at finite temperature and density, *Phys. Review* **D42** (1990) 1757.
83. G. Altarelli, R. Casalbuoni, F. Feruglio, and R. Gatto, Bounds on extended gauge models from LEP data, *Phys. Letters* **245B** (1990) 669.
84. R. Casalbuoni, P. Chiappetta, S. De Curtis, F. Feruglio, R. Gatto, B. Mele and J. Terron, Testing a possible strong interacting electroweak symmetry breaking sector at LHC and SSC, *Phys. Letters* **249B** (1990) 130.
85. R. Casalbuoni, P. Chiappetta, M.C. Cousinou, S. De Curtis, F. Feruglio and R. Gatto, Detecting possible vector resonances of a strongly interacting sector through leptonic decays at LHC and SSC, *Phys. Letters* **253B** (1991) 275.
86. R. Casalbuoni, S. De Curtis, D. Dominici, F. Feruglio and R. Gatto, Intermediate vector boson self-energies from a strong electroweak sector, *Phys. Letters* **258B** (1991) 161.
87. G. Altarelli, R. Casalbuoni, S. De Curtis, N. Di Bartolomeo, F. Feruglio and R. Gatto, Atomic parity violation in extended gauge models and latest CDF and LEP data, *Phys. Letters* **261B** (1991) 146.
88. G. Altarelli, R. Casalbuoni, S. De Curtis, N. Di Bartolomeo, F. Feruglio and R. Gatto, Improved bounds on extended gauge models from new LEP data, *Phys. Letters* **263B** (1991) 459.
89. R. Casalbuoni, S. De Curtis, N. Di Bartolomeo, F. Feruglio and R. Gatto, Photon-electron directional correlation in muonic atoms and weak interaction models, *Nucl. Physics* **A540** 577 (1992).
90. R. Casalbuoni, S. De Curtis, D. Dominici, F. Feruglio and R. Gatto, Constraints on the BESS model from precision electroweak data. Specialization to technicolor and extended technicolor, *Phys. Letters* **269B** 361 (1991).
91. R. Casalbuoni, S. De Curtis, N. Di Bartolomeo, F. Feruglio and R. Gatto, Parity violation in muonic atoms, *Phys. Letters* **273B** 528 (1991).
92. A. Barducci, R. Casalbuoni, S. De Curtis, R. Gatto and G. Pettini, Current quark mass and chiral symmetry breaking in QCD at finite temperature, *Phys. Review* **46** 2203 (1992).

93. R. Casalbuoni, P. Chiappetta, A. Deandrea, A. Fiandrino, R. Gatto, G. Nardulli, P. Taxil, Beam polarization at LHC and SSC, expected asymmetries in the BESS model and comparison with other models, *Phys. Letters* **279B** 397 (1992).
94. R. Casalbuoni, S. De Curtis, N. Di Bartolomeo, D. Dominici, F. Feruglio and R. Gatto, The Pseudo-Goldstones Mass Spectrum, *Phys. Letters* **285B** 103 (1992).
95. R. Casalbuoni, S. De Curtis, A. Deandrea, N. Di Bartolomeo, D. Dominici, F. Feruglio and R. Gatto, The extended BESS model: bounds from precision electroweak measurements, *Nucl. Physics* **B409** 257 (1993), hep-ph/9209290.
96. R. Casalbuoni, A. Deandrea, N. Di Bartolomeo, R. Gatto, F. Feruglio and G. Nardulli, Estimates with an effective chiral lagrangian for heavy mesons, *Phys. Letters* **294B** 106 (1992), hep-ph/9209247.
97. R. Casalbuoni, A. Deandrea, N. Di Bartolomeo, R. Gatto, F. Feruglio and G. Nardulli, Light vector resonances in the effective chiral lagrangian for heavy mesons, *Phys. Letters* **292B** 371 (1992), hep-ph/9209248.
98. R. Casalbuoni, A. Deandrea, N. Di Bartolomeo, R. Gatto, F. Feruglio and G. Nardulli, Effective lagrangian for heavy and light mesons: semileptonic decays, *Phys. Letters* **299B** (1993) 139, hep-ph/9211248.
99. A. Barducci, R. Casalbuoni, G. Pettini and R. Gatto, Discontinuity theorem for first order phase transitions. Implications for QCD, *Phys. Letters* **301B** 95 (1993), hep-ph/9212276.
100. R. Casalbuoni, A. Deandrea, N. Di Bartolomeo, R. Gatto, F. Feruglio and G. Nardulli, Effective lagrangian for quarkonia and light mesons in a soft-exchange approximation, *Phys. Letters* **302B** 95 (1993).
101. R. Casalbuoni, P. Chiappetta, A. Deandrea, S. De Curtis, D. Dominici, F. Feruglio and R. Gatto, Vector resonances from a strong electroweak sector at linear colliders, *Z. für Physik* **C60** 315 (1993), hep-ph/9303201.
102. R. Casalbuoni, A. Deandrea, N. Di Bartolomeo, R. Gatto, F. Feruglio and G. Nardulli, Hadronic transitions among quarkonium states in a soft-exchange-approximation. Chiral breaking and spin symmetry breaking processes, *Phys. Letters* **309B** (1993) 163, hep-ph/9304280.
103. R. Casalbuoni, A. Deandrea, N. Di Bartolomeo, R. Gatto and G. Nardulli, Effective lagrangian for heavy and light mesons: radiative B decays, *Phys. Letters* **312B** (1993) 315, hep-ph/9304302.

104. A. Barducci, R. Casalbuoni, G. Pettini and R. Gatto, Chiral phases of QCD at finite density and temperature, *Phys. Rev.* **D49** 426 (1994).
105. R. Casalbuoni, S. De Curtis and M. Grazzini, One loop calculation of the ϵ_3 parameter within the extended BESS model, *Phys. Letters* **317** 151 (1993), hep-ph/9308366.
106. G. Altarelli, R. Casalbuoni, S. De Curtis, N. Di Bartolomeo, F. Feruglio and R. Gatto, Extended gauge models and precision electroweak data, *Phys. Letters* **318** 139 (1993)
107. R. Casalbuoni, S. De Curtis, D. Dominici, P. Chiappetta, A. Deandrea and R. Gatto, Pseudo Goldstones at future colliders from the extended BESS model, *Z. Phys.* **C 65** 327 1995, hep-ph/9403305.
108. A. Barducci, R. Casalbuoni, M. Modugno, G. Pettini and R. Gatto, Thermodynamics of the massive Gross-Neveu model, *Phys. Rev.* **D51** 3042 (1995), hep-ph/9406117.
109. L. Anichini, R. Casalbuoni and S. De Curtis, Low-energy effective lagrangian of the BESS model, *Phys. Letters* **B348** 521 (1995), hep-ph/9410377.
110. R. Casalbuoni, A. Deandrea, S. De Curtis, D. Dominici, F. Feruglio, R. Gatto and M. Grazzini, Symmetries for vector and axial-vector mesons, *Phys. Letters* **B349** 533 (1995), hep-ph/9502247.
111. R. Casalbuoni, D. Dominici, P. Chiappetta, A. Fiandrino and R. Gatto, Top quark production in extended BESS model, *Z. Phys.* **C69** 519 (1996), hep-ph/9505212.
112. A. Barducci, L. Caiani, R. Casalbuoni, M. Modugno, G. Pettini and R. Gatto, Disoriented chiral condensates: a dynamical simulation in the (2+1)-dimensional Gross-Neveu model, *Phys. Lett.* **B369** 232 (1996), hep-ph/9507390.
113. R. Casalbuoni, A. Deandrea, S. De Curtis, D. Dominici, R. Gatto and M. Grazzini, Low-energy strong electroweak sector with decoupling, *Phys. Rev.* **D53** 5201 (1996), hep-ph/9510431.
114. A. Barducci, R. Casalbuoni, M. Modugno, G. Pettini, R. Gatto, $1/N_c$ Expansion for the partition function in four fermion models, *Modern Phys. Lett.* **A11** (1996) 1579, hep-ph/9603358.
115. R. Casalbuoni, A. Deandrea, N. Di Bartolomeo, R. Gatto, F. Feruglio and G. Nardulli, Phenomenology of heavy meson chiral lagrangian, *Physics Report* **281** (1997) 145, hep-ph/9605342.

116. R. Casalbuoni, S. De Curtis, D. Dominici, M. Grazzini, An extension of the electroweak model with decoupling at low energy, Phys. Lett. **B388** (1996) 112, hep-ph/9607276.
117. A. Barducci, R. Casalbuoni, M. Modugno, G. Pettini, R. Gatto, Low temperature dominance of pion-like excitations in the massive Gross-Neveu model at order $1/N$, Phys. Rev. **D55** (1997) 2247, hep-ph/9607457.
118. R. Casalbuoni, S. De Curtis and D. Guetta, Trilinear Anomalous gauge couplings and non-standard fermionic couplings, Phys.Rev. **D55** (1997) 4203, hep-ph/9610377,
119. R. Casalbuoni, D. Dominici, P. Chiappetta, A. Deandrea, S. De Curtis and R. Gatto, Manifestation of a strong electroweak sector with decoupling at hadronic colliders, Phys.Rev. **D56** (1997) 2812, hep-ph/9702325.
120. R. Casalbuoni, S.De Curtis and D. Dominici, Indirect effects of new resonances at future linear colliders, Phys. Lett. **B403** (1997) 86, hep-ph/9702357.
121. R. Casalbuoni, Integration over a generic algebra, Int. Journ. of Mod. Phys., **12** (1997) 5803, physics/9702019.
122. A. Barducci, R. Casalbuoni, M. Modugno, G. Pettini and R. Gatto, Corrections to the Pagels-Stokar formula for f_π , Phys. Lett. **B405** (1997) 173, hep-ph/9703304.
123. R. Casalbuoni, S. De Curtis, D. Dominici, M. Grazzini, New vector bosons in the electroweak sector: a renormalizable model with decoupling, Phys. Rev. **D56** (1997) 5731, hep-ph/9704229.
124. E. Accomando, A. Andreazza, H. Anlauf, A. Ballester, T. Barklow, J. Bartels, A. Bartl, M. Battaglia, W. Beenakker, G. Belanger, W. Bernreuther, J. Biebel, J. Binnewies, J. Blumlein, E. Boos, F. Borzumati, F. Boudjema, A. Brandenburg, P.J. Bussey, M. Cacciari, R. Casalbuoni, A. Corsetti, S. De Curtis, F. Cuyper, G. Daskalakis, S. Deandrea, A. Denner, M. Diehl, S. Dittmaier, A. Djouadi, D. Dominic, H. Dreiner, H. Eberl, U. Ellwanger, R. Engel, K. Flottmann, H. Franz, T. Gajdosik, R. Gatto, H. Genten, R. Godbole, G. Gounaris, M. Greco, J.F. Grivaz, D. Guetta, D. Haidt, R. Harlander, J.J. He, W. Hollik, K. Huitu, P. Igo-Kemenes, V. Ilin, P. Janot, F. Jegerlehner, M. Jezabek, B. Jim, J. Kalinowski, W. Kilian, B.R. Kim, T. Kleinwort, B.A. Kniehl, M. Kramer, G. Kramer, S. Kraml, A. Krause, M. Krawczyk, A. Kryukov, J.H. Kuhn, A. Kyriakis, A. Leike, H. Lotter, J. Maalampi, W. Majerotto, C. Markou, M. Martinez, U. Martyn, B. Mele, D.J. Miller, R. Miquel, A. Nippe, H. Nowak, T. Ohl, P. Osland, P. Overmann, G. Panzeri, A.A. Pankov, C.G. Papadopoulos, N. Paver, A. Pietila, M. Peter, M. Pizzio, T. Plehn, M. Pohl, N. Polonsky, W. Porod, A. Pukhov, M. Raidal, S. Riemann, T. Riemann, K.

- Riesselmann, I. Riu, A. De Roeck, J. Rosiek, R. Ruckl, H.J. Schreiber, D. Schulte, R. Settles, R. Shanidze, S. Shichanin, E. Simopoulou, T. Sjostrand, J. Smith, A. Sopczak, H. Spiesberger, T. Teubner, C. Troncon, C. Vander Velde, A. Vogt, R. Vuopionper, A. Wagner, J. Ward, M. Weber, B.H. Wiik, G.W. Wilson, P.M. Zerwas, Physics with e^+e^- linear colliders, (ECFA/DESY LC Physics Working Group), Physics Report **299** (1998) 1, hep-ph/9705442.
125. R. Casalbuoni, Algebraic treatment of compactification on noncommutative tori, Phys.Lett. **B431** (1998) 69, hep-th/9801170.
126. R. Casalbuoni, Algebras, derivations and integrals, Int. Journ. of Mod. Phys., **13** (1998) 5459, physics/9803024.
127. R. Casalbuoni, Projective group algebras, Int. Journ. of Mod. Phys., **14** (1999) 129, math-ph/9804020.
128. R. Casalbuoni, S.De Curtis, D. Dominici, R. Gatto and M. Grazzini, Comparing electroweak data with a decoupling model, Phys. Lett. **B435** (1998) 396, hep-ph/9805446.
129. R. Casalbuoni, S.De Curtis, D. Dominici, A. Deandrea, R. Gatto, J.F.Gunion, Detecting and studying the lightest technicolor pseudo-goldstone boson at future pp , e^+e^- and $\mu^+\mu^-$ colliders, Nucl. Phys. **B555** (1999) 3, hep-ph/9809523.
130. A. Barducci, R. Casalbuoni, M. Modugno, G. Pettini and R. Gatto, Pseudoscalar and scalar meson masses at finite temperature, Phys. Rev. **D59** (1999) 114024, hep-ph/9810245.
131. R. Casalbuoni, A. Deandrea, S. De Curtis, D. Dominici, R. Gatto and J. F. Gunion, A new technique for determining the properties of a narrow s -channel at a muon collider, Phy. Rev. Lett. **83** (1999) 1525, hep-ph/9904253.
132. R. Casalbuoni, A. Deandrea, S. De Curtis, D. Dominici, R. Gatto and J.F. Gunion, Analysis of narrow s channel resonances at lepton colliders, JHEP **9908** (1999) 011. hep-ph/9904268.
133. R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, Bounds on new physics from the new data on parity violation in atomic cesium, Phys. Lett. **B460** (1999) 135, hep-ph/9905568.
134. R. Casalbuoni, S. De Curtis, D. Dominici and R. Gatto, SM Kaluza-Klein excitations and electroweak precision tests, Phys. Lett. **B462** (1999) 48, hep-ph/9907355.
135. R. Casalbuoni and R. Gatto, Effective Theory for Color-Flavor Locking in High Density QCD, Phys. Lett. **B464** (1999) 111, hep-ph/9908227.

136. R. Casalbuoni and R. Gatto, The Color-Flavor Locking Phase at $T \neq 0$, Phys. Lett. **B469** (1999) 213, hep-ph/9909419.
137. R. Casalbuoni and R. Gatto, Pseudoscalar masses in the effective theory for color flavor locking in high density QCD, hep-ph/9911223.
138. R. Casalbuoni, Z.-Y. Duan, F. Sannino, Low-energy theory for two flavors at high density QCD, YCTP-P-04-00, Phys. Rev. **D62** (2000) 094004, hep-ph/0004207.
139. R. Casalbuoni, S. De Curtis and M. Redi, Signals of the degenerate BESS model at the LHC, Eur. Phys. J. **C18** (2000) 65, hep-ph/0007097.
140. A. Barducci, R. Casalbuoni, R. Gatto and G. Pettini, Chiral meson masses at finite temperature and density, Phys.Rev. **D63** (2001) 074002. hep-ph/0009285.
141. R. Casalbuoni, R. Gatto and G. Nardulli, Dispersion laws for in-medium fermions and gluons in the CFL phase of QCD, Phys. Lett. **B498** (2001) 179, hep-ph/0010321.
142. R. Casalbuoni, Z.-Y. Duan, F. Sannino, Electroweak physics for color superconductivity, Phys. Rev. **D63** (2001) 114026, hep-ph/0011394.
143. R. Casalbuoni, R. Gatto, M. Mannarelli and G. Nardulli, Effective field theory for the crystalline colour superconductive phase of QCD, Phys. Lett. **B511** (2001) 218, hep-ph/0101326.
144. R. Casalbuoni, R. Gatto, M. Mannarelli, G. Nardulli, Effective gluon interactions in the color superconductive phase of two flavor QCD, Phys.Lett. **B524** (2002) 144, hep-ph/0107024.
145. R. Casalbuoni, A theory of algebraic integration, Contribution to the Michael Marinov Memorial Volume, "Multiple facets of quantization and supersymmetry". Eds. M. Olshanetsky and A. Vainshtein, World Scientific (2002), pp. 458-507, hep-th/0112144.
146. R. Casalbuoni, R. Gatto, M. Mannarelli and G. Nardulli, Anisotropy parameters for the effective description of crystalline color superconductors, Phys. Rev. **D66** (2002) 014006, hep-ph/0201059.
147. R. Casalbuoni, R. Gatto and G. Nardulli, Crystalline color superconductivity: effective lagrangian and phonon dispersion law, Phys. Lett. **B543** (2002) 139, hep-ph/0205219.
148. R. Casalbuoni and L. Marconi, The linear BESS model and the double higgsstrahlung production, Journal of Phys. **G29** (2003) 1053, hep-ph/0207280.

149. R. Casalbuoni, E. Fabiano, R. Gatto, M. Mannarelli and G. Nardulli, Phonons and gluons in the crystalline color superconducting phase of QCD, Phys.Rev. **D66** (2002) 094006, hep-ph/0208121.
150. R. Casalbuoni, F. De Fazio, R. Gatto, G. Nardulli and M. Ruggieri, Massive quark effects in two flavor color superconductors, Phys. Lett. **B547** (2002) 229, hep-ph/0209105.
151. R. Casalbuoni, R. Gatto, G. Nardulli and M. Ruggieri, Aspects of the Color Flavor Locking phase of QCD in the Nambu-Jona Lasinio approximation, Phys. Rev. **D68** (2003) 034024, hep-ph/0302077.
152. A. Barducci, R. Casalbuoni, G. Pettini, and L. Ravagli, Ladder-QCD at finite isospin chemical potential, Phys. Lett. **B564** (2003) 217, hep-ph/0304019.
153. R. Casalbuoni and G. Nardulli, Inhomogeneous Superconductivity in Condensed Matter and QCD, Reviews of Modern Physics **76** (2004) 263, hep-ph/0305069.
154. R. Casalbuoni, R. Gatto, M. Mannarelli, G. Nardulli, M. Ruggieri and S. Stramaglia, Quasi-particle Specific Heats for the Crystalline Color Superconducting Phase of QCD, Phys.Lett. **B575** (2003) 181, Erratum-ibid. **B582** (2004), 279, hep-ph/0307335.
155. R. Casalbuoni and G. Tonini, Two Tricritical Lines from a Ginzburg-Landau expansion: Application to the LOFF Phase, Phys. Rev. **B69** (2004) 104505, hep-ph/0310128.
156. R. Casalbuoni, A. Deandrea and M. Oertel, Little Higgs Models and Precision Electroweak Data, JHEP02 (2004) 032, hep-ph/0311038.
157. A. Barducci, R. Casalbuoni, G. Pettini and L. Ravagli, A Calculation of the QCD Phase Diagram at Finite Temperature, and Baryon and Isospin Chemical Potentials, Phys. Rev. **D69** (2004) 096004, hep-ph/0402104.
158. R. Casalbuoni, M. Ciminale, M. Mannarelli, G. Nardulli, M. Ruggieri and R. Gatto, Effective Gap Equation for the Inhomogeneous LOFF Superconductive Phase, Phys. Rev. **D70** (2004) 054004, hep-ph/0404090.
159. R. Casalbuoni, S. De Curtis and D. Dominici, Moose models with vanishing S parameter, Phys. Rev. **D70** (2004) 055010, hep-ph/0405188.
160. R. Casalbuoni, G. Nardulli, Skyrmions and pentaquarks in the quark-hadron continuity perspective, Phys. Lett. **B602** (2004) 205, hep-ph/0406030.
161. R. Casalbuoni, R. Gatto, M. Mannarelli, G. Nardulli and M. Ruggieri, Magnetic properties of the Larkin-Ovchinnikov-Fulde-Ferrell superconducting phase, Phys. Letters **B600** (2004) 48, hep-ph/0407210.

162. A. Barducci, R. Casalbuoni, G. Pettini and L. Ravagli, Pion and kaon condensation in a 3-flavor NJL model, *Phys. Rev.* **D71** (2005) 016011, hep-ph/0410250.
163. R. Casalbuoni, R. Gatto, M. Mannarelli, G. Nardulli and M. Ruggieri, Meissner masses in the gCFL phase of QCD, *Phys. Letters* **B605** (2005) 362, hep-ph/0410401.
164. R. Casalbuoni, S. De Curtis, D. Dolce and D. Dominici, Playing with fermion couplings in higgsless models, *Phys. Rev.* **D71** (2005) 075015, hep-ph/0502209.
165. R. Casalbuoni, R. Gatto, N. Ippolito, G. Nardulli and M. Ruggieri, Ginzburg-Landau approach to the three flavor LOFF phase of QCD, *Phys. Letters* **B627** (2005) 89, hep-ph/0507247.
166. A. Barducci, R. Casalbuoni, G. Pettini and L. Ravagli, A NJL-based study of the QCD critical line, *Phys. Rev.* **D72** (2005) 056002, hep-ph/0508117.
167. R. Casalbuoni, M. Ciminale, R. Gatto, G. Nardulli and M. Ruggieri, Influence of finite quark chemical potentials on the three flavor LOFF phase of QCD, *Phys. Lett.* **B642** (2006) 350, hep-ph/0606242.
168. J. Bechi, R. Casalbuoni, S. De Curtis and D. Dominici, Effective fermion couplings in warped 5D Higgsless theories, *Phys. Rev.* **D74** (2006) 095002, hep-ph/0607314.
169. R. Casalbuoni, S. De Curtis, D. Dominici and D. Dolce, Holographic approach to a minimal Higgsless model, *JHEP* 0708:053 (2007), hep-ph/0705.2510.
170. R. Casalbuoni, J. Gomis, G. Longhi, Exotic Non-relativistic String, *Phys. Rev.* **D76** (2007) 126004, hep-th/0709.4385.
171. R. Casalbuoni, F. Coradeschi, S. De Curtis and D. Dominici, A Linear moose model with pairs of degenerate gauge boson triplets, *Phys. Rev. D* **77**, (2008) 095005 hep-ph/0710.3057.
172. R. Casalbuoni, J. Gomis, K. Kamimura and G. Longhi, Space-time Vector Supersymmetry and Massive Spinning Particle, *JHEP* **0802**, 094 (2008), hep-th/801.2702.
173. R. Casalbuoni, F. Elmetti, J. Gomis, K. Kamimura, L. Tamassia and A. Van Proeyen, Vector Supersymmetry: Casimir operators and contraction from $OSp(3,2-2)$, *JHEP* **0901**, (2009) 035, hep-th/0812.1982 .
174. R. Casalbuoni, F. Elmetti, J. Gomis, K. Kamimura, L. Tamassia and A. Van Proeyen, ‘Vector Supersymmetry from $OSp(3,2-2)$: Casimir Operators, *Fortsch. Phys.* **57**, (2009) 521, hep-th/901.4862.

- 175. R. Casalbuoni, F. Elmetti, S. Knapen and L. Tamassia, Field Representations of Vector Supersymmetry, JHEP **1004**, (2010) 106, hep-th/003.0555.
- 176. R. Casalbuoni, M. Ladisa and V. Olevano, On aspects of self-consistency in the Dyson-Schwinger approach to QED and $\lambda(\phi^*\phi)^2$ theories, Phys. Rev. D **82**, (2010) 094023, hep-ph/1009.1094.
- 177. R. Casalbuoni, J. Gomis and K. Kamimura, SuperParticle realization of twisted N=2 SUSY algebra, JHEP **1101**, (2011) 098, hep-th/012.2502.
- 178. R. Casalbuoni, J. Gomis and K. Kamimura, Space-time transformations of the Born-Infeld gauge field of a D-brane, Phys. Rev. D **84**, (2011) 027901, hep-th/1104.4916.
- 179. R. Anglani, R. Casalbuoni, M. Ciminale, R. Gatto, N. Ippolito, M. Mannarelli and M. Ruggieri, Crystalline color superconductors, Rev. Mod. Phys. **86** (2014) 509, hep-th/1302.4264.
- 180. R. Casalbuoni and J. Gomis, Conformal symmetry for relativistic point particles, Phys. Rev. D **90** (2014) 026001, hep-th/1404.5766.
- 181. R. Casalbuoni, Introduction to quantum field theory, Hackensack, USA: World Scientific (2011) 273 pages.
- 182. R. Casalbuoni, La ricerca del borsone di Higgs, Firenze University Press (2013) 132 pages.
- 183. R. Casalbuoni and J. Gomis, Conformal symmetry for relativistic point particles: an addendum, Phys. Rev. D **91**, 047901 (2015) [arXiv:1412.6903 [hep-th]].
- 184. A. Barducci, R. Casalbuoni and J. Gomis, Non-relativistic Spinning Particle in a Newton-Cartan Background, JHEP **1801** (2018) 002 [arXiv:1710.10970 [hep-th]].

List of Contributed Papers to Conferences

1. R. Casalbuoni, Colored quarks and octonions, Proceedings of the First Session of the Interdisciplinary Seminars on Tachyons and Related Topics, Erice, September 1-15, 1976, Ed. by E.Recami, North Holland (1978).
2. R. Casalbuoni, Anticommuting variables and internal degrees of freedom of elementary particles, lecture given at the Seoul Symposium on Elementary particle Physics, Seoul, September 1-5, 1978, Eds. J.Kim, P.Y.Pac and H.S.Song, Seoul National University (1979).
3. R. Casalbuoni, Unified theories for quarks and leptons based on Clifford algebras, lectures given at the Karpacz Winter School, Poland, February-March 1980. Ed. by L.Turko and A.Pekalski, Harwood Academic Publisher (1981).
4. R. Casalbuoni, Baryonic number nonconservation in subcomponent models for quarks and leptons, invited talk at the "Informal Meeting on gauge Theories and Phenomenology of Elementary Particles", Amsterdam January 12-14, 1981 and at the "ORBIS SCIENTIAE 1981", Ft. Lauderdale, Florida, January 19-22, 1981. Proceedings of ORBIS SCIENTIAE 1981, eds. B.Kursunoglu and A.Perlmutter, Plenum Press, N.Y. and London (1981).
5. R. Casalbuoni and R. Gatto, A search for possible composite models of quarks and leptons, invited talk at the 5th Johns Hopkins Workshop, Baltimore, May 24-26, 1981, Johns Hopkins Press (1981).
6. R. Casalbuoni, Dynamical symmetry breaking in QCD-like gauge theories, Proceedings of 1985 INS International Symposium on "Composite Models for Quarks and Leptons", Tokyo, August 13-15, 1985, INS Tokyo (1985).
7. R. Casalbuoni, Effective lagrangian description of vector resonances from a strongly interacting Higgs sector, Proceedings of 14th International Colloquium on "Group Theoretical Methods in Physics", Seoul, August 26-30, 1985, World Scientific, Singapore (1986).
8. R. Casalbuoni, Dynamical symmetry breaking in QCD, Proceedings of "Quark Structure of Matter" meeting, Strasbourg and Karlsruhe, September 26-October 1, 1985, World Scientific, Singapore (1986).
9. R. Casalbuoni, Dynamical symmetry breaking in QCD and quark masses, invited talk at the "International Workshop on Superstrings, Composite Structures, and Cosmology", Univ. of Maryland, March 11-18, 1987, World Scientific, Singapore (1987).
10. R. Casalbuoni, Phenomenological implications of a strongly interacting Higgs sector, invited talk at the meeting on "Search for Scalar Particles", Trieste, July 23-24, 1987, World Scientific, Singapore (1988)

11. R. Casalbuoni, Dynamical symmetry breaking in QCD and quark masses, invited talk at the International Workshop on "Variational Calculations in Quantum Field Theory", Wangerooge 1987, World Scientific (1988).
12. R. Casalbuoni, Unification of BRST, Parisi-Sourlas and space-time symmetries, Proceedings of the "XII Edicion de los Encuentros Relativistas", La Laguna (Tenerife), September 8-10, 1987, Publicaciones del IAC (1988).
13. R. Casalbuoni, Unification of BRST, Parisi-Sourlas and space-time symmetries, invited talk at the Meeting on "Geometrical and Algebraic Aspects of Nonlinear Field Theory", Amalfi, May 23-28 1988, North-Holland (1989).
14. R. Casalbuoni, Vector and axial-vector resonances from a strongly interacting electroweak sector, invited talk at the International Workshop "New Trends in Strong Coupling Gauge Theories", Nagoya, August 24-27 1988, World Scientific (1989).
15. R. Casalbuoni, Vector and axial-vector resonances from a strongly interacting electroweak sector, Lectures given at the 7th Symposium on Theoretical Physics, Seoul, August 1988, Edited by H.S.Song, Kyohak Yunkusa (1989).
16. R. Casalbuoni, High-energy equivalence theorems in spontaneously broken gauge theories, invited paper at the EPS Conference 1989, Madrid, September 6-13 1989, edited by F.Barreiro, C.Lopez, R.Fernandez Alvarez-Estrada and M. Quiros, North Holland (1990).
17. R. Casalbuoni, Bounds from LEP, CDF/UA2 and atomic parity experiments on a model of a strongly interacting electroweak sector, Proceedings of the XXVI Rencontres de Moriond, High energy hadronic interactions, 17-21 March 1991, edited by J. T. Thanh Van, World Scientific (1991).
18. R. Casalbuoni, Constraints on the BESS model from precision electroweak data. Specialization to technicolor models, Proceedings of the Lepton-Photon Conference, Geneva, July 23 - August 1, 1991, Editors S. Hegarthy, K. Potter and E. Quercigh, World Scientific (1992).
19. R. Casalbuoni and S. De Curtis, The oblique electroweak corrections for the BESS model, Proceedings of the XXVII Rencontres de Moriond, 92 Electroweak interactions and unified theories, 15-22 March 1992, edited by J. T. Thanh Van, World Scientific (1992).
20. R. Casalbuoni, S. De Curtis, D. Dominici, P. Chiappetta, A. Deandrea, R. Gatto, Limits on the BESS model at NLC, invited talk at the Waikoloa Conference on Next Linear Collider, April 1993, Waikoloa Linear Collider, (1993) 887, hep-ph/9306261.

21. R. Casalbuoni, Collider phenomenology for strongly interacting electroweak sector, Proceedings of the Workshop BSMIV, Granlibakken, December 14-18 1994, Editors J.F. Gunion, T. Han, and J. Ohnemus, Published by World Scientific (1995).
22. R. Casalbuoni, Integrating a generic algebra, Proceedings of the D.V. Volkov Memorial Seminar held in Kharkov, Ukraine, 5-7 Jan 1997, Eds. J. Wess and V.P. Akulov, Lecture Notes in Physics 509, Springer-Verlag (1998), physics/9703030.
23. R. Casalbuoni, P. Chiappetta, A. Deandrea, S. De Curtis, D. Dominici, R. Gatto, Tests for a strong electroweak sector at future hadron colliders, Contributed to Salonicco Meeting of EEC Collaboration "Tests of electroweak symmetry breaking and future european colliders", May 1997.
24. R. Casalbuoni, A theory of algebraic integration, Proceedings of the Sixth International Conference on "Path Integral from peV to TeV, Florence-Italy, August 25-29 1998, eds. R. Casalbuoni, R. Giachetti, V. Tognetti, R. Vaia and P. Verrucchi, World Scientific (1999), math-ph/9809004.
25. R. Casalbuoni, A theory of algebraic integration, Proceedings of the Euroconference On Noncommutative Geometry And Hopf Algebras In Field Theory And Particle Physics 20-30 Sep 1999, Villa Gualino, Torino, Italy, eds. L. Castellani, G. Landi, F. Lizzi, Singapore, World Scientific, 2000. (Int. J. Mod. Phys. B14 (2000) 2287-2509) math-ph/9809004.
26. R. Casalbuoni, The impact of atomic precision measurements in high-energy physics, Proceedings of the 17th International Conference on Atomic Physics (ICAP 2000), Florence, Italy, 4-9 Jun 2000, eds. E. Arimondo, P. De Natale and M. Inguscio, AIP Conference Proceedings (2001) vol. 551, hep-ph/0007104.
27. R. Casalbuoni, Precision measurements at a muon collider, contribution to the Leptre meeting, Rome April 18-20/2001, Eds. A. Baroncelli, E. Graziani, B. Mele, A. Passeri. Bologna, Ital. Phys. Soc., (2002). (Italian Physical Society conference proceedings; 78), hep-ph/0105091.
28. R. Casalbuoni, Effective lagrangians for QCD at high density, invited talk to the Conference QCD@Work: International Workshop On QCD: Theory and Experiment, 16-20 Jun 2001, Martina Franca, Italy, Eds. P. Colangelo and G. Nardulli, AIP Conference Proceedings, 602, hep-th/0108195.
29. R. Casalbuoni, Effective description of QCD at high density, invited talk to the Conference: Compact stars in the QCD phase diagram, Copenhagen, Denmark, 15-18 Aug 2001, eConf C010815:88-103, (2002). Eds. R. Ouyed and F. Sannino. hep-ph/0110107.

30. R. Casalbuoni, Anisotropic Color Superconductivity, invited talk to the SCGT02 Conference on Strong Coupling Gauge Theories and Effective Field Theories, December 10-13, 2002, Nagoya, Eds. M. Harada, Y. Kikukawa and K. Yamawaki, World Scientific, hep-ph/0301162.
31. R. Casalbuoni, Inhomogeneous Color Superconductivity, invited talk to the QCD@Work 2003 International Workshop on QCD, Conversano(Bari, Italy) June 14-18, 2003, Published in eConf C030614:041, 2003, Eds. P. Colangelo, F. De Fazio, R.A. Fini, E. Nappi, G. Nardulli, hep-ph/0310067.
32. R. Casalbuoni, Color superconductivity in high density QCD, Contributed to 6th Conference on Quark Confinement and the Hadron Spectrum, Villasimius, Sardinia, Italy, 21-25 Sep 2004, AIP Conference Proceedings,756, hep-ph/0411037.
33. R. Casalbuoni, Deconstructed Higgsless Models, Invited paper to the the QCD@Work 2005 International Workshop on Quantum Chromodynamics, Conversano (Bari, Italy) June 16-20, 2005, hep-ph/0509165.
34. R. Casalbuoni, Color superconductivity in high density QCD, contributed to 29th Johns Hopkins Workshop in Theoretical Physics: Strong Matter in the Heavens, Budapest, Hungary, 1-3 Aug. 2005, hep-ph/0512198
35. R. Casalbuoni Color superconducting neutral matter, presented at Sense of Beauty in Physics: Miniconference in Honor of Adriano Di Giacomo on his 70th Birthday, Pisa, Italy, 26-27 Jan 2006, hep-ph/0601172
36. R.Casalbuoni QCD critical point: A historical perspective, presented at the International Conference on Critical Point and Onset of Deconfinement, Florence, Italy, 3-6 July 2006, hep-ph/0610179
37. R. Casalbuoni, Majorana and the infinite component wave equations, presented at the International Conference: Ettore Majorana' legacy and his contribution to the physics of XXI th century, Catania, Italy, 5-6 October 2006, hep-th/0610252
38. R. Casalbuoni, On the Ground State of QCD inside a Compact Stellar Object, invited talk at 2006 International Workshop on the Origin of Mass and Strong Coupling Gauge Theories (SCGT 06), Nagoya, Japan, 21-24 Nov 2006, hep-ph/0702192

List of Contributions to Physics Workshops

1. R. Casalbuoni, D. Dominici, F. Feruglio and R. Gatto, New gauge vector bosons at LEP 1. (Contribution to LEP Physics Workshop 1989), CERN yellow report CERN 98-08, Z Physics at LEP, eds. G. Altarelli, R. Kleiss and C. Verzegnassi (1989).
2. R. Casalbuoni and F. Feruglio, Heavy neutral gauge bosons (Contribution to the Working Group on high-luminosities at LEP), CERN yellow report CERN 91-02, "Report on the working group on high luminosities at LEP, Edts. E. Blucher et al., (1991)
3. A. Barducci, R. Casalbuoni, S. De Curtis, R. Gatto and G. Pettini, Chiral phase transition at finite temperature and density, Proceedings of Large Hadron Collider Workshop, Aachen, 4-9 October 1990, CERN 90-10; ECFA 90/133, vol. 2, p. 1069.
4. R. Casalbuoni, P. Chiappetta, M.C. Cousinou, S. De Curtis, F. Feruglio and R. Gatto, Production of vector bosons in the BESS model, Proceedings of Large Hadron Collider Workshop, Aachen, 4-9 October 1990, CERN 90-10; ECFA 90/133, vol. 2, p. 731.
5. R. Casalbuoni, P. Chiappetta, S. De Curtis, F. Feruglio, R. Gatto, B. Mele and J. Terron, WZ Production from the BESS model, Proceedings of Large Hadron Collider Workshop, Aachen, 4-9 October 1990, CERN 90-10; ECFA 90/133, vol. 2, p. 786.
6. R. Casalbuoni, P. Chiappetta, S. De Curtis, D. Dominici, F. Feruglio and R. Gatto, The BESS Model, Proceedings of the Workshop - Munich, Annecy, Hamburg, February 4 to September 3, 1991, edited by P.M. Zerwas, DESY 92-123B, p. 513, August 1992.
7. R. Casalbuoni, S. De Curtis, D. Dominici and F. Feruglio, Sensitivity of HERA to the BESS model, Proceedings of Workshop "Physics at HERA", Hamburg, October 29-30 1991, edited by W. Buchmüller and G. Ingelman, published by DESY, 1992, vol. 2, p. 1130.
8. R. Casalbuoni, P. Chiappetta, S. De Curtis, D. Dominici and R. Gatto, The BESS Model, Proceedings of the Workshop - Munich, Annecy, Hamburg, November 1992 to April 1993, edited by P.M. Zerwas, DESY 93-123C, p. 367, December 1993, hep-ph/9309334.
9. R. Casalbuoni, P. Chiappetta, A. Deandrea, S. De Curtis, D. Dominici and R. Gatto, Some results on the BESS model at future colliders. UGVA-DPT-1995-02-883, Aug 1994. Contribution to ESB and BSM Working Group of DPF Long Range Planning Study, Albuquerque, NM, Aug 7, 1994, hep-ph/9502325.

10. G.F. Giudice, M.L. Mangano, G. Ridolfi, R. Ruckl, S. Ambrosanio, S. Asai, G. Azuelos, H. Baer, A. Bartl, W. Bernreuther, M. Besancon, G. Bhattacharyya, M. Brhlik, L.M. Bryant, G. Burkart, M. Carena, R. Casalbuoni, P. Chankowski, D. Choudhury, A. Culatti, A. Deandrea, W. de Boer, G. Carlino, S. De Curtis, G. Degrassi, C. Dionisi, A. Djouadi, D. Dominici, H. Dreiner, H. Eberl, L. Favart, M. Felcini, F. Feruglio, H. Fraas, F. Franke, R. Gatto, S. Giguagu, M. Grazzini, J.F. Grivaz, J.J. Hernandez, S. Katsanevas, S. Komamiya, S. Kraml, P. LeCoutre, S. Lola, W. Majerotto, A. Masiero, T. Medcalf, B. Mele, G. Montagna, R. Munroe, S. Navas, F. Nessi-Tedaldi, O. Nicrosini, S. Orito, F. Piccinini, S. Pokorski, W. Porod, P. Rebecchi, F. Richard, S. Rigolin, S. Rosier-Lees, S. Shevchenko, V. Shoutko, A. Shvorob, L. Silvestrini, A. Sopczak, R. Tafirout, X. Tata, J. Toth, A. Trombini, C. Vander Velde, R. van Kooten, A. Vicini, J.H. von Wimmersperg-Toller, C. Wagner, K. Yoshimura, Physics at LEP2, Final report of the Workshop on Physics at LEP2, CERN 96-01, eds. G. Altarelli, T. Sjöstrand and F. Zwirner, hep-ph/9602207.
11. R. Casalbuoni, S. De Curtis, D. Dominici, A. Deandrea, R. Gatto, M. Grazzini, A strong electroweak sector at future linear colliders, Proceedings of Physics with e+ e- Linear Colliders (The European Working Groups 4 Feb - 1 Sep 1995: Session 3), DESY 96-123D, June 1996, ed. P.M. Zerwas, hep-ph/9603297.
12. R. Casalbuoni, A. Deandrea, S. De Curtis, D. Dominici, R. Gatto, A strong electroweak sector at future linear colliders: comparison of models, UGVA-DPT-1997-08-986, Contributed to Joint ECFA - DESY Study: Physics and Detectors for a Linear Collider, Hamburg, Germany, 20-22 Nov 1996, DESY 97-123E, ed. P.M. Zerwas, hep-ph/9708287.
13. R. Casalbuoni, S. De Curtis and D. Guetta, Anomalous fermionic and trilinear gauge couplings, Contributed to Joint ECFA - DESY Study: Physics and Detectors for a Linear Collider, Hamburg, Germany, 20-22 Nov 1996, DESY 97-123E, ed. P.M. Zerwas.
14. R. Casalbuoni, S. De Curtis, D. Dominici, A. Deandrea, R. Gatto, J.F. Gunion, A strong electroweak sector at future $\mu^+\mu^-$ colliders, DFF-296-01-98, Contribution to the Workshop on Physics at the First Muon Collider and at the Front End of a Muon Collider, November 6-9, 1997, Fermilab, hep-ph/9801243.
15. B. Autin et al., CERN yellow report CERN 99-02, Prospective study of muon storage rings at CERN, Edts. B. Autin, A. Blondel and J. Ellis, (1999).
16. R. Casalbuoni, S. De Curtis and D. Guetta, Study of the anomalous couplings at NLC with polarized beams, LC-TH-1999-013, hep-ph/9912377, Contributed to Joint ECFA - DESY Study, 1998/99.

17. R. Casalbuoni, A. Deandrea, S.De Curtis, D. Dominici, R. Gatto and J.F. Gunion, The lightest pseudo-goldstone boson at future $e^+ e^-$ colliders, LC-TH-1999-013, hep-ph/9912333, Contributed to Joint ECFA - DESY Study, 1998/99.
18. R. Casalbuoni, S.De Curtis, D. Dominici, R. Gatto and S. Riemann, Z' indication from new APV data in cesium and searches at linear colliders, LC-TH-2000-006, hep-ph/0001215, Contributed to Joint ECFA - DESY Study, Jan 2000.
19. Contribution to the Workshop "Electroweak Physics", S. Haywood, P.R. Hobson, W. Hollik, Z. Kunszt et al., hep-ph/0003275, published in CERN-YR-2000/01, G. Altarelli and M.L. Mangano editors.
20. Contribution to the Technical Design Report for TESLA, Part III "Physics at an e^+e^- linear collider", Editors R.-D. Heur, D. Miller, F. Richard and P. Zerwas, DESY 2001-011. ECFA 2001-209, March 2001.