

D. Professional Activities

Member and Fellow, American Physical Society

Association of Members of the Institute for Advanced Study

Co-Director, International Summer Workshop on High Energy Physics, Trieste, Italy, for ten years (1980-1990)

Chairman, International Summer School on Current Trends in Condensed Matter and Particle Physics, Kathmandu, Nepal, for three years (1989-91)

Chairman, BCSPIN Network for Promotion of Joint Activities in Physics in Bangladesh, China, Sri Lanka, Pakistan, India and Nepal (1986-97)

Chairman, International School on Particle Physics & Cosmology, Puri, India (1993)

Chairman, International Conference on Superstrings, Cosmology and Composite Structures, University of Maryland (1987), sponsored by the CTP and the NSF

Chairman, Center for Theoretical Physics, University of Maryland (1984-87, 1993-4)

Founder and President of American Chapter of Indian Physics Association (1981-88)

E. Honors and Awards

Richard C. Tolman Postdoctoral Fellow, Calif. Inst. Technology (1960-62)

Washington Academy of Sciences Award in Physical Sciences, 1973

Fellow, Washington Academy of Sciences

John Simon Guggenheim Fellow, 1979-80

Fellow, American Physical Society

Distinguished Scholar-Teacher, University of Maryland, 1986-87

General Res. Board Semester Res. Awards. Univ. Of Maryland (1978, 1983, 1987)

Schrodinger Visiting Professor. University of Vienna, 1988

Scientist of the Year Award by the American Chapter of the Indian Physics Association (1991)

Distinguished Scientist Award by the Association of Indians in America, Washington Chapter (1998)

Fellow, The National Academy of Sciences, India

Birla Visiting Professor, Birla Science Center, Hyderabad, India (1995)

Senior Fellow, Japan Society for Promotion of Sciences (1994-95)

Distinguished Faculty Research Award, Univ. Of Maryland (1997-98)

Distinguished Homi J. Bhabha Chaired Professorship, Awarded by the Govt. of India (1999-)

The Dirac Medal and the Prize for the Year 2000, Awarded by the International Centre for Theoretical Physics, Trieste, Italy, for "Pioneering Contributions Towards Quest for Unification."

F. Contracts and Grants:

- ❖ Co-Principal Investigator, NSF Grant, (1973-1998)
- ❖ Co-Principal Investigator, DOE Grant (1999-)

G. Biographical Dictionaries:

- ❖ Listed in Who's Who in America.
- ❖ Listed in Who's Who in the World.

H. Books Edited:

- ❖ Proceedings of the ICTP Trieste Summer Schools- 8 Volumes (1980-1992), Published by World Scientific.
- ❖ Proceedings of the BCSPIN Kathmandu Summer Schools - 4 Volumes (1989, 91, 94, 97), Published by World Scientific.
- ❖ Proceedings of the BCSPIN Puri Winter School - 1993, Published by World Scientific.

A. Publications

1. V-A FOUR-FERMION INTERACTION AND THE INTERMEDIATE CHARGED VECTOR MESON, S. Oneda and J. C. Pati, Phys. Rev. Lett. 2, 125 (1959).
2. $|I| = 1/2$ AND THE WEAK FOUR-FERMION INTERACTION, S. Oneda, J. C. Pati, and B. Sakita, Phys. Rev. 119, 492 (1960).
3. LEPTONIC AND NON-LEPTONIC DECAY MODES OF K-MESONS S. Oneda, J. C. Pati, and B. Sakita, Nucl. Phys. 16, 319 (1960).
4. AN ATTEMPT AT UNIVERSAL FOUR-FERMION INTERACTION, S. Oneda and J. C. Pati, II Nuovo Cimento 16, 125 (1960).
5. A SYMMETRY PARAMETER OF η -DECAY AND THE INTERMEDIATE BOSON OF WEAK INTERACTIONS, S. Oneda, J. C. Pati, and B. Sakita, Phys. Rev. Lett. 6, 24 (1961).
6. η -RELATIVE PARITY AND THE DECAY, S. Oneda, J. C. Pati, and S. Chiba, Phys. Rev. 124, 611 (1961).
7. TEST OF GLOBAL SYMMETRY IN $K^+ + p$ -REACTIONS, J. C. Pati, Phys. Rev. 123, 647 (1961).
8. NON-LEPTONIC HYPERON DECAYS IN THE POLE APPROXIMATION AND THE STRONG COUPLING CONSTRAINTS, J. C. Pati, Phys. Rev. 130, 2097 (1963).
9. DYNAMICAL MODEL OF THE 1535 MeV HYPERON, J. C. Pati, Phys. Rev. 134, B387 (1964).
10. THE N-T MIXING ANGLE, Y. Kim, S. Oneda and J. C. Pati, Phys. Rev. 135, B1076, (1964).
11. CHOICE BETWEEN PRIMARY AND DYNAMICAL $|I| = 1/2$ -RULE IN THE CURRENT-CURRENT PICTURE FOR NONLEPTONIC WEAK DECAYS, J. C. Pati and S. Oneda, Phys. Rev. 136, B1097 (1964).
12. PARTICLE-MIXTURE THEORY AND APPARENT CP-VIOLATION, H. Ezawa, Y. Kim, S. Oneda, and J. C. Pati, Phys. Rev. Letters 14, 673 (1965).
13. ABNORMAL QUANTUM NUMBERS AND DECAY CHANNEL, J^{PG} ASSIGNMENT OF EPSILON, A SCALAR OCTET, D. Loebbaka and J. C. Pati, Phys. Rev. Letters 14, 513 (1965).
14. DYNAMICS OF $J=3/2^+ \pi =$ AND K^{\pm} -SYSTEMS IN THE 27-FOLD REPRESENTATION, Remarks on Balaz's Procedure J. C. Pati and K. Vasavada, Phys. Rev. , 144, 1270 (1966). SYMMETRIES AND DYNAMICS OF NONLEPTONIC WEAK DECAYS, J. C. Pati and S. Oneda, Phys. Rev. 140, B1351 (1965).
15. NORMAL SCALAR NONET WITH OR WITHOUT A SINGLET, $K_1 \rightarrow 2\pi$ - DECAY, $K_1 - K_2$ MASS DIFFERENCE, D. Loebbaka, S. Oneda, and J. C. Pati, Phys. Rev. 144, 1280 (1966).
16. DYNAMICS AND SYMMETRIES OF NONLEPTONIC HYPERON DECAYS, Scalar Meson Couplings, D. Loebbaka and J. C. Pati, Phys. Rev. 147, 1047 (1966).

17. CURRENT-CURRENT PICTURE, FACTORISATION IN S-WAVE T-DECAY AND NATURE OF THE $\lambda\Delta I\lambda - 1/2$ - RULE, J. C. Pati and S. Oneda, Phys. Rev. 155, 1618 (1967).
18. STRUCTURE OF THE $K \rightarrow \pi$ VERTEX AND NONLEPTONIC K-MESON PROCESSES IN THE POLE MODEL, S. Oneda and J. C. Pati, Phys. Rev. 155, 1621 (1967).
19. SU(3) BREAKING AND CURRENT ALGEBRA IN NONLEPTONIC HYPERON DECAYS, A. Kumar and J. C. Pati, Phys. Rev. Letters 18, 1230 (1967).
20. REMARKS ON ISOSPIN SELECTION RULES AND CP NONCONSERVING PHASES IN GLASHOW'S THEORY, J. C. Pati, Phys. Rev. Letters, 20, 812 (1968).
21. ONCE SUBTRACTED DISPERSION RELATIONS, CURRENT ALGEBRA AND K_0 FORM FACTORS, with J. C. Pati and K. J. Sabastian, Phys. Rev. 174, 2033 (1968).
22. ELECTRIC DIPOLE MOMENT OF THE NEUTRON IN THE $V-Ae^N$ THEORY OF WEAK INTERACTIONS, P. McNamee and J. C. Pati, Phys. Rev. 178, 2273 (1969).
23. POSSIBLE NONELECTROMAGNETIC VIOLATION OF ISOSPIN, CHARGE CONJUGATION AND TIME REVERSAL INVARIANCE BY AN INTERACTION AT THE LEVEL OF ELECTROMAGNETISM, J. C. Pati, Phys. Rev. D2, 2061 (1970).
24. REMARKS ON POSSIBLE EXISTENCE OF STABLE OR SEMISTABLE CHARGED PARTICLES IN THE THREE TRIPLET MODEL, J. C. Pati and C. H. Woo, Phys. Rev. D3, 1173 (1971).
25. $\Delta I = 1/2$ RULE WITH FERMI QUARKS, J. C. Pati and C. H. Woo, Phys. Rev. D1, 2920 (1971).
26. PROPOSED CP AND ISOSPIN VIOLATING INTERACTION AND SYMMETRIES OF THE THREE TRIPLET MODEL, J. C. Pati, Phys. Rev. D1, 2143 (1971).
27. EXPERIMENTAL TESTS FOR A CLASS OF CP INVARIANT SOLUTIONS TO THE $K_L \rightarrow \pi\pi$ PROBLEM, W. Alles and J. C. Pati, (CERN Preprint 1971), Nuovo Cimento 10, 325 (1972).
28. A U(3) NONET SCHEME OF HADRONS AND LEPTONS, A. Salam and J. C. Pati, Physics Letters, 43B, 311 (1972).
29. UNIFIED LEPTON-HADRON SYMMETRY AND A GAUGE THEORY OF THE BASIC INTERACTIONS, J. C. Pati and A. Salam, Phys. Rev. D8, 1240 (1973).
30. GAUGE THEORIES BASED ON QUARKS AND THE $0 \rightarrow 3\pi$ DIFFICULTY, R. Mohapatra and J. C. Pati, Phys. Rev. D8, 4213 (1973).
31. COMMENT ON THE (ppc) - CONTRIBUTION TO THE ABSORPTIVE AMPLITUDE FOR $K_L \rightarrow \pi\pi$, W. Alles, M. K. Gaillard and J. C. Pati, Phys. Rev. D, Oct. 1 (1973).
32. CP VIOLATION THROUGH PHASE ANGLES IN WEAK CURRENT AND THE RELATION $0_{++} + 0_{00}$, R. Mohapatra and J. C. Pati, Phys. Rev. D8, 2317, 1973.
33. CANONICAL ESTIMATION OF THE WEAK RADIATIVE CORRECTIONS IN UNIFIED GAUGE THEORIES AND SELECTION RULES, R. N. Mohapatra, J. C. Pati, and P. Vinciarelli, Phys. Rev. D8, 2653 (1973).

34. INCONSISTENCY OF A CLASS OF GAUGE THEORIES BASED ON HAN-NAMBU LIKE QUARKS, J. C. Pati and A. Salam, Trieste, Preprint IC/73/81.
35. IS BARYON NUMBER CONSERVED?, J. C. Pati and A. Salam, Phys. Rev. Letters 31, 661 (1973).
36. ARE THERE ANOMALOUS LEPTON-HADRON-INTERACTIONS?, J. C. Pati and A. Salam, Phys. Rev. Letters 32, 1083 (1974).
37. LEPTON NUMBER AS THE FOURTH COLOR, J. C. Pati and A. Salam, Phys. Rev. D10, 275 (1974).
38. ANOMALOUS LEPTON-HADRON INTERACTIONS AND GAUGE MODELS, J. C. Pati and A. Salam, Phys. Rev. D11, 1137 (1975).
39. LEFT-RIGHT GAUGE SYMMETRY AND AN ISO-CONJUGATE MODEL OF CP-VIOLATION, R. N. Mohapatra and J. C. Pati, Phys. Rev. D11, 566 (1975).
40. THE UNITY OF BARYONS AND LEPTONS - (Invited Talk, Williamsburg Conference); AIP Conference Proceedings, J. C. Pati, 23, 604 (1974).
41. ON FERMION NUMBER AND ITS CONSERVATION, J. C. Pati, A. Salam and J. Strathdee, Nuovo Cimento 26, 72 (1975).
42. A NATURAL LEFT-RIGHT SYMMETRY, R. N. Mohapatra and J. C. Pati, Phys. Rev. D11, 2558 (1975).
43. THE SUPERWEAK MODEL OF CP VIOLATION IN UNIFIED GAUGE THEORIES, with R. N. Mohapatra, J. C. Pati and L. Wolfenstein, Phys. Rev. D11, 3319 (1975).
44. ARE THE NEW PARTICLES COLOR GLUONS?, J. C. Pati and A. Salam, Phys. Rev. Lett. 4, 613 (1975).
45. COLOR AND CHARM FOR THE J/ψ -PARTICLES, J. C. Pati and A. Salam, Md. Tech. Rep. 75-056.
46. THE UNITY OF BARYONS AND LEPTONS - J. C. Pati, (popular version of the invited talk at APS Meeting, Anaheim, Calif., Jan., 1975); Md. Tech. Rep. (75-061).
47. PARTICLES, FORCES AND THE NEW MESONS: J. C. Pati, Md. Tech. Rep. 75-069, March, 1974; Proceedings of the Coral Gables Conference, Vol. 9, Pages 235-296 (1975).
48. MIRROR FERMIONS, J/ψ -PARTICLES KOLAR-MINE EVENTS AND NEUTRINO-ANOMALY, J. C. Pati and A. Salam, Phys. Letters 58B, 333 (1975)
49. WHY COLOUR FAILS TO BRIGHTEN IN ELECTROPRODUCTION AND NEUTRINO SCATTERING EXPERIMENTS, J. C. Pati and A. Salam, Phys. Review Letters 36, 11 (1976).
50. QUARKS, LEPTONS AND PRE-QUARKS, J. C. Pati and A. Salam, Invited Talk at Palermo-Conference (June, 1975); Trieste Preprint (IC/75/106), Proceedings of the Conference (page 154).

51. COLOUR AS A CLASSIFICATION SYMMETRY AND QUARK CHARGES, R. Mohapatra, J. C. Pati, and A. Salam, Univ. of Maryland Tech, Rep. No. 76-005 (July, 1975), to appear.
52. MISSING QUARK MYSTERY, J. C. Pati, S. Sakakibara and A. Salam - Trieste Preprint (IC/75/93).
53. ARE QUARKS COMPOSITE?, J. C. Pati, A. Salam and J. Strathdee, Physics Letters 59B, 265 (1975).
54. SCALING BEHAVIOUR WITH CHARGED COLOR GLUONS J. C. Pati and A. Salam, U. of Md. Tech. Rep. No. 76-061.
55. THE WORLD OF BASIC ATTRIBUTES; VALENCY AND COLOR, J. C. Pati, Invited talk at North Eastern University Conference, Univ. of Md. Tech. Rep. No. 76-071; Proceedings of the Conference (page 27), published by M. I. T. Press (1976).
56. ARE SLAC e^+e^- EVENTS DECAY PRODUCTS OF UNCONFINED INTEGER-CHARGE QUARKS, J. C. Pati, A. Salam and S. Sakakibara, Phys. Rev. Letters, 36, 1229.
57. ESSENTIAL UNIQUENESS OF THE UNIFYING SYMMETRY WITH MASSIVE COLOR GLUONS, R. Mohapatra and J. C. Pati, Physics Letters 63B, 204 (1976).
58. LEPTON-HADRON-UNIFICATION, (Trieste Preprint IC/76/76) by J. C. Pati and A. Salam, Invited Talk, Proceedings of the "Neutrino Conference, 1976" held at Aachen, West Germany, (pages 589-629).
59. THE UNCONFINED UNSTABLE INTEGER CHARGE QUARK-PREDICTIONS OF A UNIFIED THEORY -- by J. C. Pati and A. Salam, two consecutive issues of "Comments on Nuclear and Particle Physics, " (1977).
60. NUCLEON DISSOCIATION AND QUARK AND GLUON-DECAYS AS NEW SOURCES OF MULTI-LEPTON EVENTS -- J. C. Pati and A. Salam, Physical Review D15, 1405, (1977).
61. HAS HADRONIC COLOR BEEN EXCITED BY NEUTRINOS, R. N. Mohapatra, J. C. Pati, and D. P. Sidhu (Brookhaven Preprint BNL-21719, 1976 Aachen Conference Proceedings (page 612).
62. A TEST OF NONCONFINEMENT THROUGH NEUTRAL CURRENT EXPERIMENT, R. Mohapatra, J. C. Pati, and D. P. Sidhu, Phys. Rev. D15, 1240 (1977).
63. HOW LIGHT MAY OBSERVABLE COLOR GLUONS BE? J. C. Pati, J. Sucher and C. H. Woo, Phys. Rev. D15, 147 (1977).
64. CHARGED SPIN-1 GLUONS, PARTON MODEL AND THE ARCHIMEDES EFFECT, V. Elias, J. C. Pati and A. Salam and J. Strathdee, Pramana, 8, 303 (1977).
65. UNIFICATION-LIBERATION OF QUARKS AND LEPTONS, Lectures delivered at the 17th Scottish University Summer School (1976); Proceedings of the summer school (pages 89-145).
66. COMPLEXIONS OF NEUTRAL CURRENT-PHENOMENA WITHIN THE LEFT-RIGHT SYMMETRY UNIFIED THEORY OF QUARKS AND LEPTONS, J. C. Pati, S. Rajpoot, J and A. Salam, Phys. Rev. D17, 131 (1978).

67. PREQUARKS AND FRACTIONAL CHARGES, J. C. Pati, S. Rajpoot, and A. Salam; London Journal of Physics, 1980.
68. "NATURALNESS" OF ATOMIC PARITY CONSERVATION WITHIN LEFT-RIGHT SYMMETRIC UNIFIED THEORIES, J. C. Pati, H. S. Mani and A. Salam, Phys. Rev. D7 2510 (1978).
69. DILEPTON-PRODUCTION IN PP AND PP-COLLISIONS AS A PROBE TO THE NATURE OF THE NEUTRAL CURRENT INTERACTIONS, H. Mani, J. C. Pati, S. Rajpoot and A. Salam, Physics Letters 72B, 75 (1977).
70. NATURAL LEFT-RIGHT SYMMETRY, ATOMIC PARITY EXPERIMENTS AND ASYMMETRIES IN HIGH ENERGY $e^- e^+$ COLLISIONS IN PETRA AND PEP REGIONS, J. C. Pati, S. Rajpoot and A. Salam, in Physics Letters 71B, 387 (1977).
71. DESIGN OF FUTURE EXPERIMENTS; I. TO DISTINGUISH BETWEEN THE ALTERNATIVES OF PHYSICAL AND HIDDEN COLOUR. II. TO TEST IF THE NEUTRAL GAUGE BOSON LIES IN THE VICINITY OF PETRA-PEP REGION -- A NOTE FOR EXPERIMENTAL COLLEAGUES, Trieste Publication Number IC/77/65. J. C. Pati
72. UNIFICATION OF THE BASIC PARTICLE FORCES AT A MASS-SCALE OF ORDER $1000 m_w$, V. Elias, J. C. Pati, and A. Salam, Phys. Rev. Lett. 40, 920 (1978).
73. LIGHT NEUTRAL Z^0 - BOSON IN THE PETRA AND PEP ENERGY RANGE WITHIN THE UNIFYING SYMMETRY $[SU(4)]^4$, V. Elias, J. C. Pati, and A. Salam, Phys. Lett. 73B, 451 (1978).
74. LIBERATED QUARKS AND GLUONS IN $e^- e^+$ JETS AND BEAM DUMP EXPERIMENTS, J. C. Pati and A. Salam, Nuclear Physics B144, 445 (1978).
75. WHAT COULD PETRA AND PEP EXPERIMENTS UNRAVEL GIVEN THE PARITY VIOLATION OBSERVED AT SLAC?, J. C. Pati and S. Rajpoot, Physics Letters 79B, 65 (1978).
76. PART A; AN INTRODUCTION TO UNIFICATION
PART B; BASIC LEFT-RIGHT SYMMETRY IN NATURE: ITS IMPLICATIONS FOR ATOMIC PARITY, NEUTRINO AND HIGH ENERGY $e^- e^+$ - EXPERIMENTS
SALAMNCA LECTURES (1977), J. C. Pati, published by Springer Verlag, ed. By J. de Azcarraga, Pages 221-234.
77. UNIFICATION AT LOW AND AT HIGH ENERGIES - BEN LEE MEMORIAL LECTURE - J. C. Pati, Univ. of Md. Tech. Rep. 78-039, Published in the Proceedings.
78. LINK BETWEEN THE EMERGENCE OF THE GIM MECHANISM AND THE NATURE OF NEUTRAL-CURRENT PARITY VIOLATION FOR THE UNIFYING SYMMETRY $[SU(4)]^4$, A. Davidson and J. C. Pati, Nucl. Phys. B. 175, 175 (1980).
79. SIGNATURES FOR AXIAL CHROMODYNAMICS, J. C. Pati and A. Salam, Nucl. Phys. B150, 76-86 (1979).
80. UNIFICATION; ITS IMPLICATIONS FOR HIGH ENERGY EXPERIMENTATION; J. C. Pati, Talk presented at the 19th International Conference held at Tokyo, 1978, published in the Proceedings.

81. THE UNIFICATION PUZZLE, J. C. Pati, Symposium on Elementary Particle Physics, held at Seoul, S. Korea, September 1978, Pages 482-595.
82. LIBERATED COLOR IN LEPTOPRODUCTION M. Ozer and J. C. Pati, Nuclear Physics B159, 293 (1979).
83. GRAND UNIFICATION AND PROTON STABILITY, J. C. Pati, - Talk presented at the Wisconsin Seminar on Proton-Stability, Dec. 8, 1978 (Univ. of Md. Tech. Rep. 79-078). Pages 1-45, Published in the Proceedings.
84. EVIDENCE FOR LEPTONIC COLOUR? J. C. Pati, S. Rajpoot, A. Salam, and J. Strathdee, Nature 273, 736, 1978.
85. NEW PHYSICS WITH GRAND UNIFICATION, J. C. Pati, Einstein Centennial held at Jerusalem, Israel (March, 1979).
86. SYNTHESIS OF BARYONS FROM UNCONFINED QUARKS, D. Dicus, J. C. Pati, and V. Teplitz, Phys. Rev. D21, 922, (1980).
87. QUARK DECAYS IN THE EARLY UNIVERSE AND MATTER-ANTIMATTER ASYMMETRY, R. Mohapatra and J. C. Pati, Nucl. Phys. B. 1980.
88. QUARK-LEPTON UNIFICATION AND PROTON-DECAY, J. C. Pati, Proceedings of Grand Unification Workshops, held at Erice, Italy (March, 1980) and at Durham, New Hampshire (April, 1980) IC/80/72.
89. MAGNETISM AS THE ORIGIN OF PREON BINDING, J. C. Pati, University of Maryland Technical Report 80-095, Phys. Letters B98, 40 (1981).
90. CAN QCD BE EFFECTIVELY PERTURBATIVE EVERYWHERE?, S. Mishra and J. C. Pati, Trieste preprint ICTP/80, (to be published).
91. UNITY BEHIND DIVERSITY IN NATURE J. C. Pati, Physics News 11, 72 (1980).
92. GRAND UNIFICATION OF QUARKS AND LEPTONS FROM ONE OF PREONS, Proc. of the 1980 Neutrino Conf. held at Erice, June, 1980, Pages 275-300 (ed. By E. Fiorini, Plenum Press).
93. PROBING THE DESIGN OF GRAND UNIFICATION THROUGH CONSERVATION LAWS, Proc. of the 20th International Conference on High Energy Physics held at Madison, Wisconsin, July 1980.
94. A PREON MODEL WITH HIDDEN ELECTRIC AND MAGNETIC TYPE CHARGES, J. C. Pati, A. Salam, and J. Strathdee, Nucl. Phys. B 185, 416 (1981).
95. PROBING THROUGH PROTON DECAY AND $n - \bar{n}$ OSCILLATIONS, J. C. Pati, A. Salam, and J. Strathdee, Nucl. Phys. B185, 445 (1981).
96. CAN SU(16) BE RULED OUT BY LOW-ENERGY EXPERIMENTS?, J. C. Pati, A. Salam and J. Strathdee, Physics Letters 108B, 121 (1982).
97. UNIFICATION OF FUNDAMENTAL FORCES AND CONSERVATION OF BARYON AND LEPTON NUMBERS, J. C. Pati, -Proc. of ICOBAN Conf., Bombay, India (June, 1982), to appear in Pramana.

98. SUPERSYMMETRY AND PREONS, J. C. Pati, A. Salam and J. Strathdee, F. E. Low 60th Birthday volume.
99. SUPERSYMMETRY AT THE PREONIC OR PRE-PREONIC LEVEL AND COMPOSITE SUPERGRAVITY, J. C. Pati and A. Salam, Nuclear Phys. B214, 43 (1983).
100. MINIMALITY AND SUPERSYMMETRY - DYNAMICAL SYMMETRY BREAKING THROUGH PREONS - Invited Talk, Proc. 21st Int'l Conf. on High Energy Physics, Paris (July, 82), page c3-297.
101. $B = -)L$, NEUTRON $\rightarrow e-\pi^+$, $e^- K^+$, $\bar{\nu} \pi^+$ and $\bar{\nu} K^+$ DECAY MODES IN $SU(2)_L \times SU(2)_R \times SU(4)^{col}$ or $SO(10)$; J. C. Pati, A. Salam, and U. Sarkar, Phys. Lett. 133B, 330 (1983).
102. SUPERSYMMETRIC FLAVON-CHROMON MODELS, J. C. Pati, A. Salam, Nucl. Phys. B234, 223 (1984).
103. $N = 1$ SUPERGRAVITY WITHIN THE MINIMAL LEFT-RIGHT SYMMETRIC MODEL, J. C. Pati and M. Cvetič, Phys. Lett. 135, 57 (1984).
104. NUCLEON DECAYS INTO LEPTON + LEPTON + ANTILEPTON + MESONS WITHIN $SU(4)$ OF COLOR, J. C. Pati, Phys. Rev. Rapid Communications, April D29, 1549 (1984).
105. PREONS AND THEIR IMPLICATIONS FOR THE NEXT-GENERATION ACCELERATORS, J. C. Pati, Univ. of Md. PP 95/5/83, Proc. I. C. T. P. Trieste Workshop, Summer 1983, pages 400-459.
106. A MODEL FOR FAMILY REPLICATION AND A MECHANISM FOR MASS-HIERARCHY, J. C. Pati, Phys. Lett. 144B 375 (1984).
107. DYNAMICAL SYMMETRY BREAKING THROUGH PREONS AND THE SIZES OF COMPOSITE QUARKS AND LEPTONS, J. C. Pati, Phys. Rev. D30, 1144 (1984).
108. COMPOSITE FERMION MASS HIERARCHIES, R. N. Mohapatra, J. C. Pati and M. Yasue, Physics Lett. 151B, 251 (1985).
109. NUCLEON DECAYS INTO LEPTON + LEPTON + ANTILEPTON + MESONS WITHIN $SU(4)$ OF COLOR, J. C. Pati, Phys. Rev. D29, 1549 (1984).
110. DECOUPLING THE SCALES OF PARITY AND $SU(2)_R$ BREAKINGS WITHIN $SU(16)$ AND $SU(8)_L \times SU(8)_R$, M. K. Parida and J. C. Pati, Phys. Lett. 145B, 221 (1984).
111. A PREON-MODEL WITH FAMILY-REPLICATION FROM A $D=6$, $N=2$ SUPERGRAVITY THEORY, H. Nishino, J. C. Pati and S. J. Gates, Physics Lett. 154B, 363 (1985).
112. ARE THE STATES $-(8,3)$, $\Pi(3,2)$ and $\Pi(2,2)$ - MADE OF NEW COLORED CONSTITUENTS?, S. Nussinov, J. C. Pati and K. Tsokos, UM-PP85-89, unpublished.
113. PREONIC SIGNALS THROUGH COLLIDERS AND RARE DECAYS, J. C. Pati, invited talk, Proc. Int. Conf. High. En. Phys. Leipzig, 1984.
114. TESTING $SU(4)$ - COLOR AND LEFT-RIGHT SYMMETRY THROUGH PROTON-DECAY AND NEUTRINO-MASSSES, J. C. Pati, Invited Talk, Proc. Int. Conf. High En. Phys. Leipzig, 1984, Univ. of Md. PP 85-90.

115. THE RECENT SINGLE-TAG TWO-PHOTON EXPERIMENTS AT PETRA AND THE ISSUE OF QUARK CHARGES, R. M. Goble, J. C. Pati, S. D. Rindani, T. Jayaraman and G. Rajaesekaran, Phys. Lett. 142, 91 (1984).
116. THE CRUCIAL TEST OF A UNIFICATION - IDEA, J. C. Pati, Univ. of Md. PP 85-138, to appear in B. Sreekantan, 60th Birthday Volume.
117. DO SUPERSTRINGS LEAD TO QUARKS OR TO PREONS? T. Hubsch, H. Nishino, and J. C. Pati, Phys. Lett. 163B, 111 (1985).
118. GRAND UNIFICATION AND NEW DIRECTIONS, J. C. Pati, Invited Talk, Proc. of Int. Conference on "Fifty Years of Weak Interactions: From the Fermi Theory to the W" held at Wingspread, Wisconsin, May 1984, ed. by D. Cline.
119. BARYON EXCESS IN A PREON MODEL, P. K. Mohapatra, J. C. Pati, and H. Stremnitzer, Phys. Lett. 166B, 407 (1986).
120. TESTING THE FAMILY REPLICATION MODEL THROUGH $B^0 - \bar{B}^0$ MIXING, A. Datta and J. C. Pati, Trieste preprint, IC/85/145, Phys. Lett. 164B, 173 (1985).
121. SPONTANEOUS BREAKDOWN OF PARITY AS THE ORIGIN OF ISOSPIN BREAKING, D. Chang, R. N. Mohapatra, P. B. Pal, and J. C. Pati, Phys. Rev. Lett. 55, 2756 (1985).
122. MOON AS THE SEARCHING GROUND FOR PROTON DECAY, J. C. Pati, A. Salam, and B. V. Sreekantan, Md. Tech. Rep. 86-72, Journal of Modern Phys. A1, 174 (1986).
123. SUPERSTRINGS AND PREONS, J. C. Pati, Invited Talk presented at the Workshops in Thessalonicki, Greece and Trieste, Italy, June-July 1985, Univ. of Md. Tech. Rep. 85-88, Proceedings of both conferences.
124. SOME CRUCIAL PREDICTIONS OF COMPOSITENESS FOR EXPERIMENTS AT 10 GeV e^+e^- COLLIDERS, J. C. Pati and H. Stremnitzer, Phys. Rev. Lett. 56, 2152 (1986).
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