

LIST OF PAPERS SUBMITTED TO THE CONFERENCE

Editor's Note: Only those contributions are listed, where a complete paper was submitted, and are listed by number as received.  
Please write to the authors to obtain copies of the contributions.

- 1 D.G. Cassel et al.: 'EXCLUSIVE  $\rho^0$ ,  $\omega$  AND  $\phi$  ELECTROPRODUCTION', preprint CLNS 81/494 (Cornell Univ.)
- 2 J.M. Weiss et al.: 'A SEARCH FOR STABLE PARTICLES HEAVIER THAN THE PROTON AND FOR  $Q = -2/3$  QUARKS PRODUCED IN  $e^+e^-$  ANNIHILATION', SLAC-PUB-2671
- 4 W. Alles: 'ON SIX QUARKS FLAVORS AND UNIFIED MODELS OF WEAK, ELECTROMAGNETIC AND STRONG INTERACTIONS', preprint (Univ. of Bologna)
- 5 M. Rahnama and J.K. Storrow: 'FAILURE OF THE POOR MAN'S ABSORPTION MODEL IN CHARGED PION PHOTOPRODUCTION', preprint (Univ. of Manchester)
- 6 M. Rahnama and J.K. Storrow: 'EXCHANGE OF  $A_1$  AND  $Z_1$  ( $J^{PC} = 2^{--}$ ) MESONS IN CHARGED PION PHOTOPRODUCTION', preprint M/C TH 81/10 (Univ. of Manchester)
- 7 M. Kanazawa et al.: ' $n$  MESON PHOTOPRODUCTION FROM HYDROGEN AT PHOTON ENERGIES BETWEEN 807 AND 1007 MeV', preprint INS (Univ. of Tokyo)
- 8 V.V. Amosov et al.: 'OBSERVATION OF  $\mu^+e^+$ -EVENTS IN ANTINEUTRINO-NUCLEON INTERACTIONS', preprint IHEP 81-15 (Serpuukhov)
- 9 T. Kitagaki et al.: 'NEW DECAY MODE OF THE CHARMED BARYON,  $\Lambda_C^+ \rightarrow \Sigma^0\pi^+$ ', preprint (Fermilab)
- 10 T. Kitagaki et al.: 'TOTAL CHARGED CURRENT AND QUASI-ELASTIC CROSS SECTIONS IN HIGH ENERGY NEUTRINO-DEUTERIUM INTERACTIONS', preprint (Fermilab)
- 11 V.V. Amosov et al.: 'INCLUSIVE CHARGED-CURRENT ANTINEUTRINO-NUCLEON INTERACTIONS AT HIGH ENERGIES', preprint IHEP 81-66 (Serpuukhov)
- 12 K. Biswal and S.P. Misra: 'THRESHOLD PRODUCTION OF MESONS IN A COMPOSITE MODEL IN PHOTON-PHOTON COLLISIONS', preprint (Bhubaneswar, India)
- 13 J.S. Hagelin: 'MASS MIXING AND CP VIOLATION IN THE  $B^0-\bar{B}^0$ ', preprint (Harvard Univ.)
- 14 K. Enqvist et al.: 'ARE THERE CHARGED LEPTONIC  $V+A$  CURRENTS?', preprint HU-TFT-81-18 (Helsinki Univ.)
- 15 H. Terazawa: 'COSMOLOGICAL ORIGIN OF MASS SCALES', Physics Letters 101B (1981) 43
- 16 H. Terazawa and K. Akama: 'QUARK MIXINGS IN A SUBQUARK MODEL', Physics Letters 101B (1981) 190
- 17 H. Terazawa and K. Akama: 'SUBQUARK PREGOMETRY WITH SPONTANEOUSLY BROKEN CONFORMAL INVARIANCE', Physics Letters 97B (1980) 81
- 18 H. Terazawa and K. Akama: 'DYNAMICAL SUBQUARK MODEL OF PREGAUGE AND PREGOMETRIC INTERACTIONS', Physics Letters 96B (1980) 276
- 19 H. Terazawa: 'SUBQUARKS-POSSIBLY THE MOST FUNDAMENTAL FORM OF MATTER', preprint INS-401 (Univ. of Tokyo)

Papers submitted to the conference

- 20 T.N. Pham: 'COTTINGHAM FORMULA AND QUARK PARTON MODEL FOR HADRON ELECTRO-MAGNETIC MASS SHIFT', preprint (Palaiseau, France)
- 21 W. Kerler: 'AXIAL-VECTOR ANOMALY IN LATTICE GAUGE THEORY', SLAC-PUB-2634
- 22 W. Kerler: 'SCHWINGER-DYSON EQUATIONS AND CURRENTS IN LATTICE GAUGE THEORY', Physics Letters 100B (1981) 267
- 23 W. Kerler: 'CONCEPT AND PROPERTIES OF LATTICE GAUGE THEORY', SLAC-PUB-2709
- 24 R. Odorico: 'A MONTE CARLO PROGRAM FOR QCD EVENT SIMULATION IN ELECTRON-POSITRON ANNIHILATION AT LEP ENERGIES', preprint IFUB 81/4 (Univ. of Bologna)
- 25 P. Mazzanti, R. Odorico and V. Roberto: 'QUANTITATIVE PROPERTIES OF COLOUR SINGLET CLUSTERS IN QCD JETS', preprint IFUB 81/7 (Univ. of Bologna)
- 26 R. Odorico: ' $\alpha_s(K_T^2)$  VERSUS  $\alpha_s(K^2)$  IN QCD JET DEVELOPMENT: SOME QUANTITATIVE REMARKS', preprint IFUB 81/6 (Univ. of Bologna)
- 27 C. Chiaruttini, R. Odorico and V. Roberto: 'AN UNFOLDING PROCEDURE FOR DETERMINING THE CHARM FRAGMENTATION FUNCTION FROM NEUTRINO DIMUON DATA', preprint (Univ. of Bologna)
- 28 R. Odorico: 'A MONTE CARLO METHOD TO CALCULATE THE QCD EVOLUTION OF STRUCTURE FUNCTIONS WITH THE INCLUSION OF HEAVY QUARK EFFECTS', preprint TH. 2983-CERN
- 30 S. Tanaka: 'SPONTANEOUS DIMENSIONAL REDUCTION IN GENERALIZED KALUZA'S HIGH-DIMENSIONAL THEORY', preprint (Kyoto Univ.)
- 31 L.M. Jones and K.E. Lassila: 'ON THE MODIFIED JET CALCULUS OF BASSETTO, CIAFALONI AND MARCHESINI', preprint ILL-(TH)-81-18 (Univ. of Illinois)
- 32 K. Hidaka: 'PARITY VIOLATING SPIN ASYMMETRIES IN LARGE  $P_T$  LEPTON PAIR PRODUCTION IN THE COLLISION OF POLARIZED HADRONS', preprint LPTHE 81/19 (Univ. de Paris-Sud)
- 33 K. Hidaka: 'SPIN-SPIN ASYMMETRIES IN HADRO- AND PHOTOPRODUCTION OF HEAVY QUARKONIA BASED ON QCD', preprint LPTHE 80/30 (Univ. de Paris-Sud)
- 34 K. Hidaka: 'SPIN ASYMMETRIES IN LARGE  $P_T$  PRODUCTION OF GAUGE BOSONS BASED ON QUANTUM CHROMODYNAMICS AND ELECTROWEAK GAUGE MODEL', preprint LPTHE 81/04 (Univ. de Paris-Sud)
- 35 F.D. Gault and A.B. Rimmer: 'HOW LARGE IS  $\sigma(\psi N)$ ?', preprint (Univ. of Durham)
- 36 I.I. Bigi and A.I. Sanda: 'NOTES ON THE OBSERVABILITY OF CP VIOLATIONS IN B DECAYS', preprint (Univ. of Aachen)
- 37 A.I. Sanda: 'A PROBLEM FOR THEORIES WITH SPONTANEOUS CP VIOLATION AND NATURAL FLAVOR CONSERVATION', Report DOE/EY/2232B-217 (Rockefeller Univ.)
- 38 A.B. Carter and A.I. Sanda: 'CP VIOLATION IN B-MESON DECAYS', Phys. Rev. D23 (1981) 1567
- 39 J. Busenitz and J.D. Sullivan: 'PHOTON STRUCTURE VIA THE DRELL-YAN PROCESS', preprint ILL-(TH)-81-16 (Univ. of Illinois)
- 40 A. Blumenfeld and M. Moshe: 'THE RENORMALIZATION SCHEME DEPENDENCE OF THE STRONG COUPLING CONSTANT IN QCD', Technion-PH-81-29 (Haifa)

Papers submitted to the conference

- 41 K. Milton and K. Tanaka: 'PATTERN OF NEUTRINO MIXING IN GRAND UNIFIED THEORIES', DOE/ER/01545-309 (Ohio State Univ.)
- 42 G. Mennessier: 'THE SCALAR MESONS AND THEIR PRODUCTION IN  $\gamma\gamma$ -SCATTERING', preprint PM/81/6 (Univ. du Languedoc)
- 43 M. Gronau and D.G. Sutherland: 'SOFT GLUONIC EFFECTS IN NONLEPTONIC DECAYS', preprint (Glasgow Univ.)
- 44 T. Böhringer et al. (CUSB Collaboration): 'THRUST (T') DISTRIBUTIONS OF T BOUND STATES', preprint
- 45 L.J. Spencer et al. (CUSB Collaboration): 'MEASUREMENT OF B-MESON SEMI-LEPTONIC DECAY AT CESR', preprint
- 46 E. Rice et al. (CUSB Collaboration): 'SEARCH FOR STRUCTURE IN  $\sigma(e^+e^- \rightarrow \text{hadrons})$  BETWEEN  $\sqrt{s} = 10.6$  AND  $11.6$  GeV', preprint
- 47 T. Böhringer et al. (CUSB Collaboration): 'OBSERVATION OF THE TRANSITION  $T^0 \rightarrow \tau^+ \pi^+ \pi^- \rightarrow e^+ e^- \pi^+ \pi^-$ ', preprint
- 48 A. Falvard et al. (Collaboration Clermont-Orsay): 'EXPERIMENTAL RESULTS FROM GAMMA-GAMMA EXPERIMENTS AT DCI', preprint
- 49 J.L. Alonso and V. Azcoiti: 'UNITARITY WITH QUARKS DESPITE CONFINEMENT: IS THE UP QUARK MASSLESS?', preprint DFTUZ 81.1 (Univ. of Zaragoza)
- 50 J.L. Alonso, V. Azcoiti and A. Cruz: 'ASYMPTOTIC BEHAVIOUR OF THE PION ELECTROMAGNETIC FORM FACTOR IN A CONFINING COVARIANT PARTON MODEL: ANOTHER EVIDENCE FOR MASSLESS QUARKS', preprint DFTUZ 81.2 (Univ. of Zaragoza)
- 52 G. Kramer and I. Montvay: 'RADIATIVE QUARK MASS GENERATION AND A FOURTH QUARK FAMILY', preprint DESY 81/027
- 53 A.S. Joshipura and I. Montvay: 'CP-VIOLATION IN RIGHT-HANDED HORIZONTAL INTERACTIONS', preprint (Univ. of Hamburg)
- 54 M. Lehto and R. Raitio: 'A GAUGE THEORY OF QUARK AND LEPTON CONSTITUENTS', preprint HU-TFT-81-23 (Univ. of Helsinki)
- 55 M.J. Puhala et al.: 'B-MESON TRIGGER AT HIGH ENERGIES IN  $e^+e^-$  ANNIHILATION' preprint IS-J 487 (Iowa State Univ.)
- 56 M.J. Puhala et al.: 'HIGH TRANSVERSE MOMENTUM LEPTONS FROM B MESONS: THEIR CHARACTERISTICS AND USES', preprint IS-J 534 (Iowa State Univ.)
- 57 M.J. Puhala et al.: 'ON THE MEASURABILITY OF ELECTROWEAK ASYMMETRIES IN HADRONIC JETS IN  $e^+e^-$  ANNIHILATION', preprint (Iowa State Univ.)
- 58 M. Binkley et al. (Fermilab and Univ. of Illinois Collaboration): ' $J/\psi$  PHOTOPRODUCTION FROM 60 TO 300 GeV/c', preprint
- 59 B. Andersson, G. Gustafson and T. Sjöstrand: 'A MODEL FOR BARYON PRODUCTION IN QUARK AND GLUON JETS', preprint LU TP 81-3 (Univ. of Lund)
- 60 B. Andersson, G. Gustafson and T. Sjöstrand: 'ON SOFT GLUON EMISSION AND THE TRANSVERSE MOMENTUM PROPERTIES OF FINAL STATE PARTICLES', preprint LU TP 81-4 (Univ. of Lund)
- 61 B. Andersson, G. Gustafson and G. Ingelman: 'ENERGY FLOW IN LEPTOPRODUCTION', preprint LU TP 81-5 (Univ. of Lund)

Papers submitted to the conference

- 62 B. Andersson et al.: 'LEPTOPRODUCTION OF BARYONS', preprint LU TP 81-6 (Univ. of Lund)
- 64 S.M. Barr and L.S. Brown.: 'DOMINANT ELECTROMAGNETIC CORRECTION TO THE ENERGY-ENERGY CORRELATIONS IN ELECTRON-POSITRON ANNIHILATION', preprint RLO-1388-863 (Univ. of Washington, Seattle)
- 65 L.S. Brown and S.D. Ellis: 'ENERGY-ENERGY CORRELATIONS IN ELECTRON-POSITRON ANNIHILATIONS', preprint (Univ. of Washington, Seattle)
- 66 N. Kawamoto and J. Smit: 'EFFECTIVE LAGRANGIAN AND DYNAMICAL SYMMETRY BREAKING IN STRONGLY COUPLED LATTICE QCD', preprint ITFA-81-2 (Univ. of Amsterdam)
- 67 P.S. Isaev: 'APPROXIMATED SOLUTION OF QCD EVOLUTION EQUATION', preprint DUBNA
- 69 N. Amos et al. (CERN ISR): 'MEASUREMENT OF  $\bar{p}$ -P ELASTIC AND TOTAL CROSS SECTIONS AT  $\sqrt{s} = 52.8$  GeV USING THE CERN-ISR AS A P-P COLLIDER'
- 70 G.F. de Téramond: 'MASS PERTURBATION IN GRAND UNIFICATION', preprint (Univ. of Costa Rica)
- 71 T.H. Chang and K.J.F. Gaemers: 'HOW TO MEASURE THE VIRTUALNESS OF GLUONS', preprint (Univ. of Amsterdam)
- 72 T. Anders et al.: 'ELECTRO-WEAK INTERACTION IN POLARIZED ELECTRON-POSITRON AND ELECTRON-ELECTRON SCATTERING', preprint (Univ. of Munich)
- 73 H. Bellinghausen et al.: 'ELECTROPRODUCTION OF  $\pi^0$ -MESONS ON PROTONS AT  $W = \sqrt{(q+p)^2} = 1500-1750$  MeV,  $|q^2| = |(e-e')^2| = 0.01-0.1$  GeV<sup>2</sup>, and  $|t| = |(p-p')^2| \sim 1.2$  GeV<sup>2</sup>', preprint HE-81-20 (Univ. of Bonn)
- 74 J. Randa: 'COMPARISON OF JETS IN DIFFRACTIVE DISSOCIATION AND  $e^+e^-$  ANNIHILATION', Phys. Rev. D23 (1981) 1662
- 75 K.T. Mahanthappa and J. Randa: 'NONDIFFRACTIVE PSI PHOTOPRODUCTION MECHANISMS', Phys. Rev. D23 (1981) 696
- 77 J. Chakrabarti and V.S. Mathur: 'QCD SUM-RULES FOR V-A SPECTRAL FUNCTIONS', preprint (Univ. of Rochester)
- 78 A. Marini et al. (LNF, LBL, Northwestern U., Stanford U., U. of Hawai Collaboration): 'A SEARCH FOR FRACTIONALLY CHARGED PARTICLES AT PEP'
- 79 K. Ishikawa: 'LARGE WIDTH GLUONIC BOUND STATE IN  $J/\psi$  RADIATIVE DECAY', preprint (DESY)
- 80 K. Ishikawa: 'IS THE E(1420) IN  $J/\psi$  DECAY A GLUONIC BOUND STATE?', preprint (DESY)
- 81 T. Ishii et al.: 'MEASUREMENT OF TARGET ASYMMETRY IN DEUTERON PHOTODISINTEGRATION: A STUDY OF DIBARYON RESONANCES', preprint (Nagoya Univ.)
- 82 E.L. Berger and D. Jones: 'INELASTIC PHOTOPRODUCTION OF  $J/\psi$  AND  $T$  BY GLUONS', preprint ANL-HEP-PR-80-72 (Argonne National Lab.)
- 83 R. McClary and N. Byers: 'RELATIVISTIC EFFECTS IN QUARKONIUM DECAYS', preprint UCLA/81/TEP/21 (Univ. of California, Los Angeles)
- 86 Y.S. Tsai: 'COPIOUS PRODUCTION OF HARD PHOTONS IN THE  $e^+e^-$  COLLIDING EXPERIMENTS', preprint SLAC-PUB-2741

Papers submitted to the conference

- 87 E.L. Berger and D. Jones: 'MOMENTUM DISTRIBUTIONS FOR INELASTIC  $J/\psi$  PHOTOPRODUCTION', preprint ANL-HEP-PR-80-76 (Argonne National Lab.)
- 88 E.L. Berger and S.J. Brodsky: 'DIRECT COUPLING OF THE PION IN LARGE  $p_T$  JET INTERACTIONS', preprint ANL-HEP-PR-81-14 (Argonne National Lab.)
- 89 K. Ruddick et al.: 'INITIAL OPERATION OF THE SOUDAN I NUCLEON DECAY DETECTOR', preprint (Univ. of Minnesota)
- 90 M. Jung et al.: 'DIFFERENTIAL CROSS SECTIONS OF PROTON COMPTON SCATTERING AT PHOTON LABORATORY ENERGIES BETWEEN 700 AND 1000 MEV', preprint HE-81-6 (Univ. of Bonn)
- 92 M. Yasuè: 'PHENOMENOLOGICAL ASPECT OF  $SO(10)$  GRAND UNIFIED MODEL', Progr. Theor. Phys. 65 (1981) 708
- 93 M. Yasuè: 'SYMMETRY-BREAKING OF  $SO(10)$  AND CONSTRAINTS ON HIGGS POTENTIAL (I) (ADJOINT {45} AND SPINORIAL {16})', preprint INS-387 (Univ. of Tokyo)
- 94 M. Yasuè: 'HOW TO BREAK  $SO(10)$  VIA  $SO(4) \times SO(6)$  DOWN TO  $SU(2)_L \times SU(3)_C \times U(1)$ ', preprint INS-391 (Univ. of Tokyo)
- 95 M. Yasuè: 'COMPOSITE MODEL OF QUARKS AND LEPTONS RELATED TO COMPOSITE STRUCTURES OF  $SO(10)$ ', Phys. Letters 91 B (1980) 85
- 96 M. Yasuè: 'NUMBER OF GENERATIONS AND EMERGENCE OF  $SO(10)$  IN A SUBQUARK MODEL WITH A SUBCOLOR' preprint INS-394 (Univ. of Tokyo)
- 97 M. Yasuè: 'EFFECTIVE GENERATION OF A COMPOSITE QUARK-LEPTON SYMMETRY', preprint RIFP-439 (Kyoto Univ.)
- 98 K.V.L. Sarma and V. Singh: 'LOWER BOUND ON THE PHOTON-PHOTON CROSS SECTION', Phys. Letters 101 B (1981) 201
- 99 K.V.L. Sarma and V. Singh: 'EFFECTIVE BARYON-LEPTON COUPLING AND THE PROTON DECAY MODES', preprint TIFR/TH/81-27 (Tata Institute, Bombay)
- 100 A. Nakamura and K. Odaka: 'CONSTRUCTION OF LOCAL MESON OPERATOR FROM PATH ORDERED OPERATOR IN  $QCD_2$ ', preprint KEK-TH 28
- 104 Z. Hioki: 'HARD-PHOTON EMISSION IN HIGH ENERGY  $\nu e$  SCATTERINGS', preprint RIFP 444 (Kyoto Univ.)
- 105 R. Barbieri et al.: 'QCD CORRECTIONS TO P WAVE QUARKONIUM DECAYS', TH. 3071-CERN
- 106 R. Casalbuoni and R. Gatto: 'SEARCH FOR COMPOSITIVE MODELS', preprint UGVA-DPT 81/06-279 (Univ. of Geneva)
- 107 B. Schrempp and F. Schrempp: 'TWO-PHOTON EXCHANGE IN  $p(\bar{p}) \rightarrow e^+e^-X$  AND A COMPARISON WITH QCD', DESY 80/96
- 108 S. Narison and E. de Rafael: 'ON QCD SUM RULES OF THE LAPLACE TRANSFORM TYPE AND LIGHT QUARK MASSES', preprint ICPT-81/P.1287 (Trieste)
- 109 D.P. Roy: 'INTRINSIC CHARM CONTRIBUTION TO SCALE BREAKING AT LARGE  $x$ ' preprint TIFR/TH/81-19 (Tata Institute, Bombay)
- 110 R.V. Gavai and D.P. Roy: 'INTRINSIC CHARM AND PHOTON-GLUON FUSION CONTRIBUTIONS TO MUOPRODUCTION OF CHARM', preprint TIFR/TH/81-7 (Tata Institute Bombay)

Papers submitted to the conference

- 111 A.N. Kamal, J. Kodaira and T. Muta: 'GLUON JETS FROM HEAVY PARAQUARKONIUM', SLAC-PUB-2725
- 112 M. Glück and E. Reya: 'MASS SCALE OF GRAND UNIFICATION IN  $N = 8$  EXTENDED SUPERGRAVITY', preprint DO-TH 81/06 (Univ. of Dortmund)
- 113 M. Glück and E. Reya: 'RENORMALIZATION CONVENTION INDEPENDENCE BEYOND THE LEADING ORDER IN DEEP INELASTIC SCATTERING', preprint DO-TH 81/03 (Univ. of Dortmund)
- 114 K. Aoki et al.: 'ELECTROWEAK RADIATIVE CORRECTIONS TO HIGH ENERGY  $\nu e$  SCATTERINGS', Progr. Theor. Phys. 65 (1981) 1001
- 115 C. Ayala, A. Bramon and F. Cornet: 'CONTACT TERMS IN  $\gamma\gamma \rightarrow \pi^+\pi^-\pi^+\pi^-$  TRANSITIONS', preprint UAB-FT-77 (Univ. of Barcelona)
- 116 Ll. Ametller, C. Ayala and A. Bramon: 'SU(3)-BREAKING MECHANISMS FOR PSEUDOSCALAR CHARGE RADII', preprint UAB-FT-68 (Univ. of Barcelona)
- 117 A. Bramon and E. Massó: 'Q<sup>2</sup>-DUALITY FOR ELECTROMAGNETIC FORM FACTORS OF MESONS', preprint UAB-FT-76 (Univ. of Barcelona)
- 118 A. Bramon: 'ON THE  $\rho$ ,  $\omega$  AND  $\phi$  MIXING MECHANISMS', preprint UAB-FT-75 (Univ. of Barcelona)
- 119 J. Cleymans and M. Kuroda: 'COMPARISON OF ANGULAR DISTRIBUTIONS IN  $\pi^+\pi^-\mu^+\mu^- + \dots$  WITH LOWEST ORDER QCD', preprint BI-TP 81/16 (Univ. of Bielefeld)
- 120 P. Klasen, K. Kleinknecht and D. Pollmann: 'APPLICATION OF WAVE-SHIFTER TECHNIQUES TO POSITION MEASURING COUNTERS', preprint UNIDO-80/269 (Univ. of Dortmund)
- 121 H. Harari and N. Seiberg: 'A DYNAMICAL THEORY FOR THE RISHON MODEL', Physics Letters 98B (1981) 269
- 122 H. Harari and N. Seiberg: 'DYNAMICAL SYMMETRY BREAKING AND COMPOSITE QUARKS AND LEPTONS', preprint WIS-48/80 (Weizmann Institute)
- 123 H. Harari and N. Seiberg: 'GENERATION LABELS IN COMPOSITE MODELS FOR QUARKS AND LEPTONS', preprint WIS-81/10 (Weizmann Institute)
- 124 T.J. Chapin et al.: 'MEASUREMENT OF  $\gamma p \rightarrow X p$  AT LOW  $t$  AND HIGH ENERGIES', preprint (Rockefeller Univ.)
- 125 M. Chaichian, M. Hayashi and M. Roos: 'Z<sup>0</sup>-PRODUCTION IN HADRONIC COLLISIONS WITH QCD CORRECTIONS', preprint HU-TFT-81-10 (Univ. of Helsinki)
- 126 M. Chaichian, A.P. Demichev and N.F. Nelipa: 'THE BOUND STATE PROBLEM AND QUARK CONFINEMENT', Phys. Letters 102 B (1981) 43
- 127 M. Chaichian, Yu.N. Kolmakov and N.F. Nelipa: 'STRUCTURE OF ELECTROWEAK INTERACTIONS IN CASE OF MANY GENERATIONS', preprint Hu-TFT-81-9 (Univ. of Helsinki)
- 128 M. Chaichian, Yu.N. Kolmakov and N.F. Nelipa: 'GRAND UNIFIED THEORIES IN THE FRAMEWORK OF SU(N) GROUP', preprint HU-TFT-80-39 (Univ. of Helsinki)
- 129 M. Corden et al. (Birmingham, CERN, Ecole Polytechnique Collaboration): 'TRANSVERSE MOMENTUM BEHAVIOUR OF DIMUONS PRODUCED BY 39.5 GeV/c HADRONS INCIDENT ON A TUNGSTEN TARGET AND COMPARISON WITH HIGHER ENERGY RESULTS'

Papers submitted to the conference

- 130 M. Corden et al. (Birmingham, CERN, Ecole Polytechnique Collaboration): 'A MEASUREMENT OF THE A DEPENDENCE OF THE  $J/\psi$  CROSS SECTION BY COMPARING DATA ON HYDROGEN AND TUNGSTEN TARGETS AT 39.5 GeV/c', preprint
- 131 Y.M. Cho, J.L. Cortes and X.Y. Pham: 'SEARCH FOR THE GLUEBALLS', preprint PAR/LPTHE 81/08 (Univ. Pierre et Marie Curie)
- 132 J.L. Cortes, X.Y. Pham and A. Tounsi: 'MASS EFFECTS IN WEAK DECAYS OF HEAVY PARTICLES', preprint PAR/LPTHE 80/31 (Univ. Pierre et Marie Curie)
- 133 M. Chaichian, M. Hayashi and K. Yamagishi: 'ANGULAR DISTRIBUTIONS OF HIGH-MASS DILEPTONS WITH FINITE TRANSVERSE MOMENTUM IN HIGH ENERGY HADRONIC COLLISIONS', preprint HU-TFT-81-13 (Univ. of Helsinki)
- 134 M. Chaichian and N.F. Nelipa: 'CURRENT ALGEBRA AND  $\pi \Delta$  PHOTOPRODUCTION', preprint HU-TFT-80-36 (Univ. of Helsinki)
- 135 H. Arenhövel: 'MESON AND ISOBAR CURRENTS IN PHOTO ABSORPTION AND SCATTERING FOR DEUTERIUM', preprint KPH 9/81 (Univ. of Mainz)
- 136 H. Arenhövel: 'COMMENT ON DEUTERON PHOTODISINTEGRATION BELOW 100 MeV', preprint KPH 10/81 (Univ. of Mainz)
- 137 D. Aston et al. (OMEGA- $\gamma$ -Collaboration): 'PHOTOPRODUCTION OF  $\rho^0$  AND  $\omega$  ON HYDROGEN AT PHOTON ENERGIES OF 20 TO 70 GeV'
- 138 H. Breuker et al.: 'ELECTROPRODUCTION OF  $\pi^+$  MESONS AT FORWARD AND BACKWARD DIRECTIONS IN THE REGION OF THE  $D_{13}(1520)$  AND  $F_{15}(1688)$  RESONANCES'
- 139 H. Breuker et al.: 'BACKWARD ELECTROPRODUCTION OF  $\pi^+$  MESONS IN THE SECOND AND THIRD RESONANCE REGIONS' (Univ. of Bonn)
- 140 D. Blockus et al. (SLAC, Johns Hopkins, Caltech Collaboration): 'DIRECT ELECTRON PAIR PRODUCTION IN  $\pi^-p$  INTERACTIONS AT 16 GeV/c AND A MODEL FOR DIRECT LEPTON AND PHOTON PRODUCTION AT LOW  $P_T$ '
- 141 E.G. Floratos, C. Kounnas and R. Lacaze: 'HIGHER ORDER QCD EFFECTS IN INCLUSIVE ANNIHILATION AND DEEP INELASTIC SCATTERING', preprint LPTENS 81/3 (Ecole Normale Supérieure)
- 142 C. Favuzzi et al. (Bari, Krakow, Liverpool, Munich, Nijmegen Collaboration): 'A STUDY OF DEEP INELASTIC HADRON HADRON SCATTERING WITH A2 $\pi^-$ -CALORIMETER TRIGGER'
- 143 A. Cordier et al.: 'RESULTS OF THE DM1 EXPERIMENT AT DCI: OBSERVATION OF A  $\phi$ ' (1.65) VECTOR MESON', preprint (Univ. of Paris-Sud)
- 144 D. Drijard et al.: 'WAS BEAUTY BARYON OBSERVED AT THE ISR?', preprint CERN/EP/81-?
- 145 O. Nachtmann and W. Wetzel: 'THE  $\beta$ -FUNCTION FOR EFFECTIVE QUARK MASSES TO TWO LOOPS IN QCD', preprint HD-THEP-81-1 (Univ. of Heidelberg)
- 146 O. Nachtmann: 'A COMMENT ON HIGHER TWIST CONTRIBUTIONS TO  $\sigma_L/\sigma_T$ ', preprint HD-THEP-80-12 (Univ. of Heidelberg)
- 147 W. Bernreuther and O. Nachtmann: 'WEAK INTERACTION EFFECTS IN POSITRONIUM', preprint HD-THEP-81-7 (Univ. of Heidelberg)
- 148 D. Allasia et al. (BEBE Collaboration): 'MEASUREMENT OF THE RATIOS OF  $\frac{d\sigma_{\mu^+n}}{d\sigma_{\mu^+p}}$  TO  $\frac{d\sigma_{\mu^-n}}{d\sigma_{\mu^-p}}$  CHARGED CURRENT CROSS SECTIONS AT HIGH ENERGIES'

Papers submitted to the conference

- 150 A. Bramon and E. Massó: 'IS THE  $\delta$  (980) MESON AN EXOTIC  $q\bar{q}q\bar{q}$  SYSTEM?', preprint (Univ. of Barcelona)
- 151 T. Eguchi and H. Kawai: 'NUMBER OF RANDOM SURFACES ON THE LATTICE AND THE LARGE N GAUGE THEORY', preprint UT-365 (Univ. of Tokyo)
- 152 T.N. Truong: 'ROLE OF SQUARE ROOT THRESHOLD SINGULARITY IN CURRENT ALGEBRA AND CHIRAL SYMMETRY BREAKING CALCULATIONS OF  $K_{l3}$ ,  $K_{l4}$  AND  $\tau \rightarrow \pi K \nu$  DECAYS', Phys. Letters 99B (1981) 154
- 153 C. Roiesnel and T.N. Truong: 'RESOLUTION OF THE  $\eta \rightarrow 3\pi$  PROBLEM', preprint (Ecole Polytechnique, Palaiseau)
- 154 K. Aoki et al.: 'AXIAL CHARGE OF QUARKS AND LEPTONS - A FURTHER DIFFICULTY IN SUB-LEPTON/QUARK MODELS', preprint KUNS 591-HE 81/06 (Kyoto Univ.)
- 155 I. Antoniadis and T.N. Truong: 'LOWER BOUND FOR BRANCHING RATIO OF  $K^+ \rightarrow \pi^+ \text{AXION}$  AND NON-EXISTENCE OF PECCEI-QUINN AXION', preprint (Ecole Polytechnique, Palaiseau)
- 156 K. Abe et al. (SLAC Hybrid Facility Photon Collaboration): 'PHOTOPRODUCTION OF CHARMED PARTICLES AT 19.5 GeV'
- 157 W. Buchmüller, Y.J. Ng and S.-H. H. Tye: 'HYPERFINE SPLITTINGS IN HEAVY QUARK SYSTEMS', preprint Fermilab-Pub-81/46-THY, Cornell CLNS 81/497
- 158 R.L. Jaffe and M. Soldate: 'HIGHER TWIST IN ELECTROPRODUCTION: A SYSTEMATIC QCD ANALYSIS', preprint CTP 931 (Mass. Inst. of Technology)
- 159 R.L. Jaffe and M. Soldate: 'TWIST-4 IN THE QCD ANALYSIS OF LEPTOPRODUCTION', preprint CTP 937 (Mass. Inst. of Technology)
- 160 D.M. Capper and G. Leibbrandt: 'ON WARD IDENTITIES IN A GENERAL AXIAL GAUGE I. YANG-MILLS THEORY', preprint QMC-81-9 (Queen Mary College)
- 161 D.M. Capper and G. Leibbrandt: 'NON-TRANSVERSALITY OF THE YANG-MILLS SELF-ENERGY IN THE PLANAR GAUGE', preprint QMC-81-8 (Queen Mary College)
- 162 M.S. Alam et al. (CLEO Collaboration): 'OBSERVATION OF  $T(3S) \rightarrow \pi^+ \pi^- T(1S)$ ', preprint
- 163 D. Andrews et al. (CLEO Collaboration): 'ANGULAR DISTRIBUTION IN THE 3-GLUON DECAY OF THE  $T(1S)$ '
- 164 D. Andrews et al. (CLEO Collaboration): 'CROSS SECTIONS FOR  $e^+e^-$  ANNIHILATION INTO HADRONS IN THE UPSILON REGION'
- 165 M.S. Alam et al. (CLEO Collaboration): 'INCLUSIVE PROPERTIES OF B MESON DECAY'
- 166 J. Green et al. (CLEO Collaboration): 'LEPTONS FROM B DECAY'
- 169 C. Bebek et al. (CLEO Collaboration): 'KAON PRODUCTION FROM THE  $T$  RESONANCES'
- 170 C. Bebek et al. (CLEO Collaboration): 'KAON-LEPTON EVENTS IN B MESON DECAY'
- 171 A. Brody et al. (CLEO Collaboration): 'BARYON PRODUCTION IN THE  $T$  REGION'
- 172 A. Brody et al. (CLEO Collaboration): 'A DETERMINATION OF  $\alpha_s$  FROM THE LEPTONIC DECAY OF THE  $T(1S)$ '



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- 173 G.J. Gounaris and D. Schildknecht: 'SUM RULES FOR  $e^+e^-$  ANNIHILATION IN GENERAL ELECTROWEAK MIXING MODELS AND EXTENDED GAUGE THEORIES', preprint BI-IP 81/09 (Univ. of Bielefeld)
- 174 E.H. de Groot and D. Schildknecht: 'GENERAL ELECTROWEAK MIXING MODELS AND EXTENDED GAUGE THEORIES', preprint BI-TP 80/32 (Univ. of Bielefeld)
- 175 W. Hollik and A. Zepeda: 'POLARIZED BHABHA SCATTERING IN MULTIBOSON ELECTROWEAK GAUGE MODELS', preprint (Univ. of Würzburg)
- 176 M. Bardadin-Otwinowska, M. Szczekowski and A.K. Wróblewski: 'CHARGED MULTIPLICITIES OF HADRONS IN HADRONIC AND LEPTONIC REACTIONS', preprint (Univ. of Warsaw)
- 177 L. Clavelli and D. Wyler: 'KINEMATICAL BOUNDS ON JET VARIABLES AND THE HEAVY JET MASS DISTRIBUTION', preprint HE-81-3 (Univ. of Bonn)
- 178 T. Chandramohan and L. Clavelli: 'CONSEQUENCES OF 2<sup>nd</sup> ORDER QCD FOR JET STRUCTURE IN  $e^+e^-$  ANNIHILATION', preprint HE-80-22 (Univ. of Bonn)
- 179 J.J. Aubert et al. (The European Muon Collaboration): 'FORWARD PRODUCED PROTONS AND ANTIPROTONS IN DEEP INELASTIC MUON PROTON SCATTERING', CERN-EP/81-53
- 180 J.J. Aubert et al. (The European Muon Collaboration): 'EVIDENCE FOR PLANAR EVENTS AND A FORWARD DOUBLE JET STRUCTURE IN DEEP INELASTIC MUON SCATTERING', CERN-EP/81-10
- 181 J.J. Aubert et al. (The European Muon Collaboration): 'A MEASUREMENT OF WIDE ANGLE BREMSSTRAHLUNG IN A HIGH ENERGY MUON SCATTERING EXPERIMENT AS A CHECK ON THE CONSISTENCY OF RADIATIVE CORRECTION CALCULATIONS', CERN-EP/81-29
- 182 E.P. Kuznetsov et al.: 'INCLUSIVE  $\gamma$  AND  $\pi^0$  PRODUCTION IN  $\nu N$  AND  $\bar{\nu} N$  - INTERACTIONS IN THE ENERGY RANGE 3 - 25 GeV/c', preprint IHEP (Serpukhov)
- 183 E.P. Kuznetsov et al.: 'INCLUSIVE PROPERTIES OF CHARGED PIONS IN  $\bar{\nu} N$  - INTERACTIONS IN THE ENERGY RANGE 3 - 25 GeV', preprint IHEP (Serpukhov)
- 184 V.V. Ammosov et al. (Fermilab-IHEP-ITEP-Michigan University Collaboration): 'AZIMUTHAL ASYMMETRY OF NEGATIVE HADRONS PRODUCED IN  $\bar{\nu} N \rightarrow \mu^+ h^- X$  REACTION', preprint
- 185 V.V. Ammosov et al. (Fermilab-IHEP-ITEP-Michigan University Collaboration): 'VECTOR  $\omega$  (783) AND  $\rho$  (770) MESONS PRODUCTION IN NEUTRAL CURRENT OF ANTINEUTRINO INTERACTIONS', preprint
- 186 V.V. Ammosov et al. (Fermilab-IHEP-ITEP-Michigan University Collaboration): 'SEARCH FOR QUARK POLARIZATION EFFECTS IN CHARGED-CURRENT ANTINEUTRINO-NUCLEON INTERACTIONS',
- 187 V.A. Monich, B.V. Struminsky and G.G. Volkov: 'OSCILLATION AND CP VIOLATION IN THE "HORIZONTAL" SUPERWEAK GAUGE SCHEME', preprint IHEP-80-144 (Serpukhov)
- 188 D. Allasia et al. (AMBOPAPISATO Collaboration): 'FRAGMENTATION FUNCTIONS IN HIGH ENERGY  $\bar{\nu} d_2$  INTERACTIONS'
- 189 S. Barlag et al. (AMBOPAPISATO Collaboration): 'CHARGED HADRON MULTIPLICITIES IN HIGH ENERGY  $\bar{\nu}_{\mu n}$  AND  $\bar{\nu}_{\mu p}$  INTERACTIONS'
- 190 K. Fialkowski and A. Kotański: 'HADRON MULTIPLICITY DISTRIBUTIONS IN A DUAL MODEL', preprint TPJU-14/81 (Univ. of Crakow)

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- 191 J. Körner and M. Krammer: 'ON THE RADIATIVE DECAY OF ORTHOQUARKONIUM VIA TWO INTERMEDIATE GLUONS:  $1^{--}(QQ) \rightarrow \gamma + 1^{++}(q\bar{q})$ ', preprint (DESY)
- 192 J.G. Vargas: 'NONRELATIVISTIC PARA-MAXWELLIAN ELECTRODYNAMICS WITH PREFERRED REFERENCE FRAME IN THE UNIVERSE', preprint (Univ. of Maracaibo)
- 193 J.G. Vargas: 'NONRELATIVISTIC PARA-LORENTZIAN MECHANICS', Foundations of Physics 11(1981) 235
- 194 H.C. Ballagh et al.: 'EVIDENCE FOR HARD GLUON BREMSSTRAHLUNG IN A DEEP INELASTIC NEUTRINO SCATTERING EXPERIMENT', preprint UCPPG/81/5/1 (Lawrence Berkeley Lab.)
- 195 R.E. Marshak: 'PROTON DECAY AND NEUTRON OSCILLATIONS AS CRUCIAL TESTS OF UNIFICATION MODELS', preprint (Virginia Polytechnic Institute)
- 196 K.H. Althoff et al.: 'PHOTODISINTEGRATION OF POLARIZED DEUTERONS AT  $K = 550$  MEV AND  $25^\circ \leq \theta_p^{cm} \leq 60^\circ$ ', preprint (Univ. of Bonn)
- 197 E.L. Berger and C. Sorensen: 'PRODUCTION AND DECAY OF THE  $\chi$  IN HADRONIC INTERACTIONS', preprint ANL-HEP-PR-81-28 (Argonne National Lab.)
- 198 Y. Wada et al.: 'RECOIL PROTON POLARIZATION OF THE PROTON COMPTON SCATTERING IN THE RESONANCE REGION', preprint INS (Univ. of Tokyo)
- 199 P. Chiappetta and M. Greco: 'TRANSVERSE MOMENTUM DISTRIBUTIONS FOR DRELL-YAN PAIRS IN QCD', preprint CPT.81/P.1307 CNRS (Marseille)
- 200 V.I. Efremenko et al. (FNAL-U. of Michigan-Moscow-Serpukhov Collaboration): 'QUARK COMPOSITION OF PROTON FROM  $\bar{\nu}_n$  AND  $\bar{\nu}_p$  INTERACTIONS', preprint
- 201 P. Bracken, A. Frenkel and G. Karl: 'COMMENTS ON BARYON SEMILEPTONIC DECAYS', preprint (Univ. of Guelph, Canada)
- 202 K. Egawa et al.: 'POLARIZATION OF RECOIL NEUTRON FROM SINGLE-PION-PHOTO-PRODUCTION OF PROTONS IN THE RESONANCE REGION', preprint INS (Univ. of Tokyo)
- 203 K. Egawa et al.: 'RECOIL PROTON POLARIZATION IN THE REACTION  $\gamma p \rightarrow \pi^0 p$  AT BACKWARD ANGLES', preprint INS (Univ. of Tokyo)
- 204 V. Brisson et al.: (BEBC-TST-Collaboration): 'RATIOS OF CROSS SECTIONS ON NEUTRONS AND PROTONS'
- 205 M. Basile et al.: (CERN, ISR): 'THE METHOD OF REMOVING THE LEADING PROTONS IN THE STUDY OF HIGH-ENERGY (pp) REACTIONS, COMPARED WITH THE STANDARD ANALYSIS', preprint CERN EP/81-88
- 206 K. Tamvakis and C.E. Vayonakis: 'NON-PERTURBATIVE EFFECTS IN GUT PHASE TRANSITIONS', preprint TH.3108-CERN
- 207 K. Tamvakis and C.E. Vayonakis: 'A POSSIBLE SOLUTION TO THE PROBLEM OF COSMIC DOMAIN WALLS', preprint TH.3128-CERN
- 208 L.B. Lahanas, K. Tamvakis and C.E. Vayonakis: 'SCALAR PARAMETERS IN EFFECTIVE GAUGE THEORIES', preprint TH.3112-CERN
- 209 V.I. Efremenko et al. (Fermilab-ITEP-IHEP-Michigan University Collaboration): 'NEUTRAL CURRENTS IN ANTINEUTRINO EXPERIMENT AT THE 15 FT BUBBLE CHAMBER',
- 210 H. Harari, R.N. Mohapatra and N. Seiberg: 'PROTON DECAYS AND NEUTRON OSCILLATIONS IN THE RISHON MODEL', preprint TH.3123-CERN

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- 211 M. Atkinson et al.: (Omega- $\gamma$  - Collaboration): 'THE DECAY OF THE  $\rho'$  (1600) INTO  $\pi^+\pi^-\pi^0\pi^0$ '
- 212 M. Atkinson et al.: (Omega- $\gamma$ -Collaboration): 'THE REACTION  $\gamma p \rightarrow p n \pi^+\pi^-$ ', preprint CERN EP/81-111
- 213 M. Atkinson et al. (Omega- $\gamma$ -Collaboration): 'THE REACTION  $\gamma p \rightarrow p \pi^+\pi^-\pi^0$  AT PHOTON ENERGIES OF 20 TO 70 GeV', preprint CERN EP/81-112
- 214 M. Atkinson et al. (Omega- $\gamma$  - Collaboration): 'PHOTOPRODUCTION OF THE  $\omega\pi^0$  STATE IN THE ENERGY RANGE 20 - 70 GeV', preprint CERN EP/81-113
- 215 A. Jurewicz: ' $N \rightarrow \Delta(1232)$  ELECTROMAGNETIC TRANSITION FORM FACTOR AND PION-NUCLEON DYNAMICS AT MODERATE ENERGIES II', preprint (Inst. of Nuclear Research, Warsaw)
- 216 R.K. Ellis and D.A. Ross: 'ON THE THRUST DISTRIBUTION IN  $e^+e^-$  ANNIHILATION', preprint TH.3131-CERN
- 217 C.A. Albright, B. Schremp and F. Schremp: 'LIGHT COMPOSITE FERMIONS AND ANOMALY MATCHING REVISITED', preprint DESY 81-038
- 218 K.H. Althoff et al.: 'SEARCH FOR DIBARYON RESONANCES AT PHOTON ENERGIES BETWEEN 350 AND 550 MeV IN THE REACTION  $\gamma + d \rightarrow p + p + \pi^-$ ', preprint (Univ. of Bonn)
- 219 K. Koller, D.H. Schiller and D. Wähler: 'FINAL STATE POLARIZATION EFFECTS IN  $e^-e^+ \rightarrow \gamma, Z^0 \rightarrow q\bar{q}$ ', preprint SI-81-13 (Univ. of Siegen)
- 220 X. Li and R.E. Marshak: 'NEUTRAL WEAK BOSON MASSES IN THE  $SU(2)_L \times SU(2)_R \times U(1)_{B-L}$  ELECTROWEAK MODEL', preprint VPI-HEP 81/5 (Virginia Polytechnic Institute)
- 221 Y. Achiman: 'A SCENARIO FOR COMPOSITE GUT', preprint WUB 81-13 (Univ. of Wuppertal)
- 222 R. Odorico: 'ON THE ROLE OF THE QCD EVOLUTION OF PARTON DISTRIBUTIONS IN EXPLAINING DIFFRACTIVE PRODUCTION OF CHARM', preprint IFUB 81/13 (Univ. of Bologna)
- 223 J.G. Körner and D.H. Schiller: 'HELICITY DESCRIPTION OF  $e^+e^- \rightarrow q\bar{q}g$  AND  $e^+e^- \rightarrow Q\bar{Q}(1^{--}) \rightarrow g\bar{g}$  ON AND OFF THE  $Z^0$ : QUARK, GLUON AND BEAM POLARIZATION EFFECTS', preprint DESY
- 224 P.M. Ivanov et al.: 'MEASUREMENT OF CHARGED KAON FORM FACTOR AT THE ENERGY BELOW 1.4 GeV', preprint (Inst. of Nuclear Physics, Novosibirsk)
- 225 K. Fujii et al.: 'MEASUREMENT OF THE POLARIZED TARGET ASYMMETRY ON  $\gamma p \rightarrow \pi^+n$  IN THE THIRD RESONANCE REGION', preprint (Univ. of Nagoya)
- 226 N. Awaji et al.: 'ENERGY DEPENDENT PARTIAL WAVE ANALYSIS ON SINGLE PION PHOTOPRODUCTION', preprint (Univ. of Nagoya)
- 227 J. Cleymans, M. Kuroda and G.J. Gounaris: 'ANGULAR DISTRIBUTION OF  $\mu$  PAIRS FROM HADRONIC  $T$  PRODUCTION', TH.3134-CERN
- 228 D. Bollini et al.: 'PRODUCTION OF MUONS BY VIRTUAL PHOTONS AND UPPER LIMIT FOR UPSILON PRODUCTION', preprint CERN-EP/81-?
- 229 J.P. Berge et al.: 'QUARK JETS FROM ANTINEUTRINO INTERACTIONS III, TRANSVERSE STRUCTURE OF THE QUARK JETS', preprint FERMILAB-PUB-81/30-EXP

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- 230 A.K. Likhoded, S.R. Slabospitsky and A.N. Tolstenkov: 'INCLUSIVE PHOTO-PRODUCTION OF CHARMED HADRONS IN VMD', preprint IHEP (Serpukhov)
- 231 K. Milton, S. Nandi and K. Tanaka: 'MIXING OF  $\nu_e$ - $\nu_\mu$  IN SO(10) MODELS', preprint FERMLAB-Pub-81/54-THY
- 232 R. Brandelik et al. (TASSO Collaboration): 'HIGH  $p_T$  HADRON PRODUCTION IN PHOTON-PHOTON COLLISIONS', preprint DESY 81-053
- 233 V.V. Ammosov et al.: 'QUARK JETS FROM ANTINEUTRINO INTERACTIONS II, INCLUSIVE PARTICLE SPECTRA AND MULTIPLICITIES IN THE QUARK JETS', preprint IHEP-81-94 (Serpukhov)
- 234 A.E. Asratyan et al.: 'LOOKING FOR  $\bar{\nu}_\mu \rightarrow \bar{\nu}_\tau$  OSCILLATIONS', preprint ITEP-47 (Moscow)
- 235 V.I. Efremenko et al.: ' $\Delta^-(1236)$  PRODUCTION IN  $\bar{\nu}_n \rightarrow \mu^+ n \pi^-$  REACTION AT HIGH ENERGIES', preprint ITEP-83 (Moscow)
- 236 J. Stekas et al.: 'LOW MASS ELECTRON PAIR ANOMALY IN 17 GeV/c  $\pi^- p$  COLLISIONS', preprint BNL (Brookhaven National Lab.)
- 237 R. Brandelik et al. (TASSO Collaboration): 'EXCLUSIVE PROTON-ANTIPROTON PRODUCTION IN TWO PHOTON COLLISIONS', preprint DESY 81-058
- 238 F.A. Berends, R. Kleiss and S. Jadach: 'RADIATIVE CORRECTIONS TO THE PROCESS  $e^+e^- \rightarrow \mu^+\mu^-$  IN THE  $Z^0$  REGION', preprint (Instituut Lorentz, Leiden)
- 239 K. Chadwick et al. (CLEO Collaboration): 'EVIDENCE AGAINST EXOTIC DECAYS OF B MESONS'
- 240 K. Chadwick et al. (CLEO Collaboration): 'A MEASUREMENT OF THE LEPTONIC BRANCHING RATIO OF THE  $\tau(2S)$ '
- 241 J.J. Sakurai: 'THE STRUCTURE OF CHARGED CURRENTS', preprint UCLA/81/TEP/19 (Univ. of California, Los Angeles)
- 242 A.T. Filippov: 'RADIATIVE DECAYS OF LIGHT MESONS', preprint JINR (Dubna)
- 243 Y. Chung et al.: 'BARYON SUM RULES AND CHIRAL SYMMETRY BREAKING', preprint HD-THEP-81-8 (Univ. of Heidelberg)
- 244 CELLO Collaboration: 'CLUSTER ANALYSIS OF HADRONIC  $e^+e^-$  ANNIHILATION EVENTS AT 22 AND 34 GeV ENERGY'
- 245 M. Basile et al. (CERN, ISR): 'THE 'LEADING' PARTICLE EFFECT IN HADRON PHYSICS', preprint CERN EP/81-86
- 246 CELLO Collaboration: 'ANALYSIS OF ENERGY ENERGY CORRELATIONS'
- 247 A. Ali: 'THE QCD-EFFECTIVE COUPLING CONSTANT IN  $e^+e^-$  ANNIHILATION', preprint (DESY)
- 248 R.D. Schamberger et al. (CUSB Collaboration): 'SEARCH FOR  $B^* \rightarrow B + \gamma$  AND LIMITS ON THE B-MASS'
- 249 G. Giannini et al. (CUSB Collaboration): 'STRANGE PARTICLE PRODUCTION IN  $e^+e^-$  ANNIHILATION AT THE UPSILON RESONANCES'
- 250 P.M. Tuts et al. (CUSB Collaboration): 'SEARCH FOR A NARROW RESONANCE BETWEEN THE  $\tau''(10.32)$  AND THE  $\tau''(10.55)$ '