Interner Bericht
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The DESY Keyword Thesaurus 1973

The terms of this thesaurus are used at DESY for the indexing of papers on high-energy physics and quantum field theory.

1. Purpose of Keyword Assignment

Our keyword assignment serves the following purposes:

making possible mechanized information retrieval and SDI (Selective Dissemination of Information) service at DESY and other high-energy physics centers,

establishment of a subject index for the biweekly HIGH ENERGY PHYSICS INDEX.

The total of keywords assigned to a paper also serves as some kind of a substitute for an abstract.

2. Form of Keyword Assignment

Keywords may be used singly or coupled by comma and blank (examples: FIELD THEORY (single) and MODEL, FIELD THEORY (coupled)). While the first term is generally a regular keyword, the second term can be a keyword for a non-keyword.

Non-keyword which are frequently used are standardized and contained in this thesaurus.

The following keywords are frequently used in connection with non-keywords: MODEL, APPROXIMATION, SYMMETRY, EXCHANGE.

3. Two-Particle Combinations

Combinations of any two particles in the following list are single regular keywords. The particle coming first in the list should come first in the combination.

(example: PHOTON NEUTRINO not: NEUTRINO PHOTON). Combinations of this type may occur in expressions like PHOTON NEUTRINO, ELASTIC SCATTERING.

PHOTON
LEPTON
FERMION
NEUTRINO
ANTINEUTRINO
ELECTRON
POSITRON
MUON
MUON+
MUON-
HADRON
MESON
BOSON
PI
PIO
PI+
PI-

K
ANTI-K
KO
K+
K-
MESON RESONANCE
BARYON
ANTIBARYON
NUCLEON
ANTINUCLEON
ANTI-P
P
N
ANTI-N
HYPERON
ANTIHYPERON
LAMBDA
ANTILAMBDA

SIGMA
ANTISIGMA
SIGMA+
SIGMAO
SIGMA-
XI
ANTIXI
XIO
XI-
OMEGA-
VECTOR MESON
BARYON RESONANCE
DEUTERIUM
LIGHT NUCLEUS
NUCLEUS
QUARK
INTERMEDIATE BOSON

4. Three-Particle Combinations

Three-particle combinations (non-keywords) succeeding some keywords like VERTEX FUNCTION or COUPLING CONSTANT or INTERFERENCE are connected by hyphens and listed in the order of rising masses (Example: COUPLING CONSTANT, PI-RHO(765)-OMEGA(784)).

5. Resonances

Meson and baryon resonances are generally named as in the 1971 Rosenfeld Tables, omitting the charge states.

6. Depth of Indexing

Papers on peripheral topics will usually have fewer keywords per paper than papers on high-energy physics. Examples of such topics are quantum mechanics, statistical mechanics, gravitation, and astrophysics.

There are three kinds of entries in this thesaurus:

regular keywords (blank space in Column 1)

terms which are not used (- in Column 1)

standardized non-keywords (* in Column 1); these terms will generally occur as companions to regular keywords. Non-keywords which have not been standardized are not contained in this thesaurus.

Comments or rules of use are given in parentheses. "Restricted use" means that a keyword is used only in cases where it is of central importance in the paper considered.

Entries are ordered in the IBM/360 sorting sequence:
blank.(+*);-/,>'=A...Z 0...9

ANTILAMBDA NUCLEUS
ANTILAMBDA OMEGA-
ANTILAMBDA QUARK
ANTILAMBDA SIGMA
ANTILAMBDA SIGMA+
ANTILAMBDA SIGMA-
ANTILAMBDA SIGMA0
ANTILAMBDA VECTOR MESON
ANTILAMBDA XI
ANTILAMBDA XI-
ANTILAMBDA XI0
-ANTIMATTER (MATTER, ANTIPARTICLE (RESTRICTED USE))
ANTIMONY
ANTINEUTRINO
ANTINEUTRINO ANTI-K
ANTINEUTRINO ANTI-N
ANTINEUTRINO ANTI-P
ANTINEUTRINO ANTIBARYON
ANTINEUTRINO ANTIHYPERON
ANTINEUTRINO ANTILAMBDA
ANTINEUTRINO ANTINEUTRINO
ANTINEUTRINO ANTINUCLEON
ANTINEUTRINO ANTISIGMA
ANTINEUTRINO ANTIXI
ANTINEUTRINO BARYON
ANTINEUTRINO BARYON RESONANCE
ANTINEUTRINO BOSON
ANTINEUTRINO DEUTERIUM
ANTINEUTRINO ELECTRON
ANTINEUTRINO HADRON
ANTINEUTRINO HYPERON
ANTINEUTRINO INTERMEDIATE BOSON
ANTINEUTRINO K
ANTINEUTRINO K+
ANTINEUTRINO K-
ANTINEUTRINO K0
ANTINEUTRINO LAMBDA
ANTINEUTRINO LIGHT NUCLEUS
ANTINEUTRINO MESON
ANTINEUTRINO MESON RESONANCE
ANTINEUTRINO MUON
ANTINEUTRINO MUON+
ANTINEUTRINO MUON-
ANTINEUTRINO N
ANTINEUTRINO NUCLEON
ANTINEUTRINO NUCLEUS
ANTINEUTRINO OMEGA-
ANTINEUTRINO P
ANTINEUTRINO PI
ANTINEUTRINO PI+
ANTINEUTRINO PI-
ANTINEUTRINO PI0
ANTINEUTRINO POSITRON
ANTINEUTRINO QUARK
ANTINEUTRINO SIGMA
ANTINEUTRINO SIGMA+
ANTINEUTRINO SIGMA-
ANTINEUTRINO SIGMA0
ANTINEUTRINO VECTOR MESON
ANTINEUTRINO XI
ANTINEUTRINO XI-
ANTINEUTRINO XI0
ANTINUCLEON
ANTINUCLEON ANTI-N
ANTINUCLEON ANTI-P
ANTINUCLEON ANTIHYPERON
ANTINUCLEON ANTILAMBDA
ANTINUCLEON ANTINUCLEON
ANTINUCLEON ANTISIGMA
ANTINUCLEON ANTIXI
ANTINUCLEON BARYON RESONANCE
ANTINUCLEON DEUTERIUM
ANTINUCLEON HYPERON
ANTINUCLEON INTERMEDIATE BOSON
ANTINUCLEON LAMBDA
ANTINUCLEON LIGHT NUCLEUS
ANTINUCLEON N
ANTINUCLEON NUCLEUS
ANTINUCLEON OMEGA-
ANTINUCLEON P
ANTINUCLEON QUARK
ANTINUCLEON SIGMA
ANTINUCLEON SIGMA+
ANTINUCLEON SIGMA-
ANTINUCLEON SIGMA0
ANTINUCLEON VECTOR MESON
ANTINUCLEON XI
ANTINUCLEON XI-
ANTINUCLEON XI0
ANTIPARTICLE
-ANTIQUARK (QUARK, ANTIPARTICLE)
ANTISIGMA
ANTISIGMA ANTISIGMA
ANTISIGMA ANTIXI
ANTISIGMA BARYON RESONANCE
ANTISIGMA DEUTERIUM
ANTISIGMA INTERMEDIATE BOSON
ANTISIGMA LIGHT NUCLEUS
ANTISIGMA NUCLEUS
ANTISIGMA OMEGA-
ANTISIGMA QUARK
ANTISIGMA SIGMA+
ANTISIGMA SIGMA-
ANTISIGMA SIGMA0
ANTISIGMA VECTOR MESON
ANTISIGMA XI
ANTISIGMA XI-
ANTISIGMA XI0
ANTIXI
ANTIXI ANTIXI
ANTIXI BARYON RESONANCE
ANTIXI DEUTERIUM
ANTIXI INTERMEDIATE BOSON
ANTIXI LIGHT NUCLEUS
ANTIXI NUCLEUS
ANTIXI OMEGA-
ANTIXI QUARK
ANTIXI VECTOR MESON
ANTIXI XI-
ANTIXI XI0
*ANYTHING (ONLY IN REACTIONS')
APPROXIMATION
-ARGAND DIAGRAM ('PARTIAL-WAVE ANALYSIS' + (POSSIBLY) 'MESON RESONANCE' OR 'BARYON RESONANCE')
ARGON
*ARGONNE PS
ARSENIC
*ASSOCIATED ('PRODUCTION, ASSOCIATED' OR 'DECAY, ASSOCIATED')
ASTATINE
ASTROPHYSICS
-ASYMPTOTIC BEHAVIOR (IN GENERAL 'HIGH ENERGY BEHAVIOR', USED ONLY FOR THEORETIC MODELS IN THE ASYMPTOTIC RANGE, AND ONLY WHERE HIGH ENERGY BEHAVIOR IS NOT IMPLICITLY CONTAINED IN OTHER KEYWORDS SUCH AS 'REGGE POLES' OR 'FACTORIZATION')
-AT REST (ENERGY RANGE 0.1 GEV AND BELOW)
ATOM
ATOMIC PHYSICS
-AUXILIARY CIRCUITS (IF ELECTRONICS, GENERALLY 'DIGITAL LOGIC'. IF NOT ELECTRONICS, 'ELECTRICAL ENGINEERING')
-AXIAL VECTOR CURRENT (CURRENT ALGEBRA)
-AXIAL-VECTOR CURRENT MODEL (CURRENT ALGEBRA)
*AXIAL-VECTOR MESON DOMINANCE (MODEL, AXIAL-VECTOR DOMINANCE)
AXIOMATIC FIELD THEORY
A1(1070)
-A2 EXCHANGE (EXCHANGE, A2(1310))
-A2 SPLITTING (A2(1310), MASS DIFFERENCE)
A2(1310)
-A3 MESON RESONANCE ('PI(1640)')

A

B(1235)
BACKGROUND
BACKSCATTER
-BACKWARD SCATTERING (BACKSCATTER)
*BALAZS (MODEL, BALAZS)
*BALI-CHEW-PIGNOTTI (MODEL, BALI-CHEW-PIGNOTTI)
*BARDAKCI-RUEGG (MODEL, BARDAKCI-RUEGG)
*BARDAKCI-RUEGG-VIRASORO (MODEL, BARDAKCI-RUEGG-VIRASORO)
BARIUM
BARYON (ALSO: MODEL, BARYON)
BARYON ANTI-N
BARYON ANTI-P
BARYON ANTIBARYON
BARYON ANTIHYPERON
BARYON ANTILAMBDA
BARYON ANTINUCLEON
BARYON ANTISIGMA
BARYON ANTIXI
BARYON BARYON
BARYON BARYON RESONANCE
BARYON DEUTERIUM
-BARYON EXCHANGE (EXCHANGE, BARYON)
BARYON HYPERON
BARYON INTERMEDIATE BOSON
BARYON LAMBDA
BARYON LIGHT NUCLEUS
-BARYON MODEL (MODEL, BARYON)
BARYON N
BARYON NUCLEON
BARYON NUCLEUS
-BARYON NUMBER ('QUANTUM NUMBER, BARYON')
BARYON OMEGA-
BARYON P
-BARYON POLE MODEL (EXCHANGE, BARYON)
BARYON QUARK
BARYON RESONANCE
-BARYON RESONANCE BARYON RESONANCE ('BARYON RESONANCE, BARYON BARYON')
BARYON RESONANCE DEUTERIUM
BARYON RESONANCE LIGHT NUCLEUS
BARYON RESONANCE NUCLEUS
BARYON RESONANCE QUARK
BARYON SIGMA
BARYON SIGMA+
BARYON SIGMA-
BARYON SIGMA0
BARYON VECTOR MESON
BARYON XI
BARYON XI-
BARYON XI0
*BATAVIA PS
BEAM
BEAM CALIBRATION
BEAM EMITTANCE
BEAM HARDENER
BEAM MONITORING
BEAM OPTICS
BEAM OSCILLATION
-BEAM POLARIZATION ('BEAM, POLARIZATION')
BEAM TRANSPORT
*BELL-STEINBERGER (MODEL, BELL-STEINBERGER)
BENDING MAGNET
*BERKELEY PS
BERKELIUM
BERYLLIUM
-BETA DECAY ('LEPTONIC DECAY')
*BETA FUNCTION (MODEL, BETA FUNCTION)
BETATRON
BETATRON OSCILLATION
*BETHE-GOLDSTONE (MODEL, BETHE-GOLDSTONE)
*BETHE-HEITLER ('APPROXIMATION, BETHE-HEITLER')
BETHE-SALPETER EQUATION
-BHABHA SCATTERING (ELECTRON POSITRON, ELASTIC SCATTERING)
*BIALAS-ZALEWSKI (MODEL, BIALAS-ZALEWSKI)
BIBLIOGRAPHY
-BILOCAL CURRENT ALGEBRA ('FIELD THEORY, OPERATOR ALGEBRA')
-BILOCAL OPERATOR ALGEBRA ('FIELD THEORY, OPERATOR ALGEBRA')
BINDING ENERGY
BISMUTH
*BJORKEN LIMIT (HIGH ENERGY BEHAVIOR, BJORKEN LIMIT)
-BJORKEN MODEL (HIGH ENERGY BEHAVIOR, BJORKEN LIMIT)
-BJORKEN-JOHNSON-LOW (HIGH ENERGY BEHAVIOR, BJORKEN LIMIT)
-BLACK HOLE (GRAVITATION)
*BONN ES
BOOK
BOOTSTRAP
*BORN (APPROXIMATION, BORN)
BORON
BOSON (ALSO: 'MODEL, BOSON')
BOSON ANTI-K
BOSON ANTI-N
BOSON ANTI-P
BOSON ANTIBARYON
BOSON ANTIHYPERON
BOSON ANTILAMBDA
BOSON ANTINUCLEON
BOSON ANTISIGMA
BOSON ANTIXI
BOSON BARYON
BOSON BARYON RESONANCE
BOSON BOSON
BOSON DEUTERIUM
BOSON HYPERON
BOSON INTERMEDIATE BOSON
BOSON K
BOSON K+
BOSON K-
BOSON K0
BOSON LAMBDA
BOSON LIGHT NUCLEUS
BOSON MESON RESONANCE
BOSON N
BOSON NUCLEON
BOSON NUCLEUS
BOSON OMEGA-
BOSON P
BOSON PI
BOSON PI+
BOSON PI-
BOSON PI0
BOSON QUARK
BOSON SIGMA
BOSON SIGMA+
BOSON SIGMA-
BOSON SIGMA0
BOSON VECTOR MESON
BOSON XI
BOSON XI-
BOSON XI0
-BOUND ELECTRONS (ATOMIC PHYSICS)
*BOUND STATE (ONLY USED AS 'MODEL, BOUND STATE')
*BOUNDARY CONDITION (MODEL, BOUNDARY CONDITION)
-BRANCHING RATIO ('DECAY MODES'. FOR PRODUCTION PROCESSES DISREGARDED)
-BRANS-DICKE (GRAVITATION)
*BREAKUP ('FISSION, BREAKUP' OR, E.G., 'P, BREAKUP')
*BREIT-WIGNER (MODEL, BREIT-WIGNER)
BREMSSTRAHLUNG (ALSO 'MODEL, BREMSSTRAHLUNG')
*BROKEN ('SYMMETRY, BROKEN' EXAMPLE: 'SYMMETRY, SU(3)' + 'SYMMETRY, BROKEN')
BROMINE
*BROOKHAVEN PS
*BROWN-GOBLE (MODEL, BROWN-GOBLE)
BUBBLE CHAMBER
BUBBLE CHAMBER(DEUTERIUM)
BUBBLE CHAMBER(HEAVY LIQUID)
BUBBLE CHAMBER(HYDROGEN)
BUILDINGS
BUNCHING

C

-C MESON RESONANCE (Q REGION)
-C* ALGEBRA ('MECHANICS, STATISTICS' OR 'AXIOMATIC FIELD THEORY')
-C-PARITY (QUANTUM NUMBER, CHARGE CONJUGATION)
*CABIBBO (MODEL, CABIBBO)
*CABIBBO ANGLE (WEAK INTERACTION, CABIBBO ANGLE)
*CABIBBO-FERRARI (MODEL, CABIBBO-FERRARI)
*CABIBBO-HORWITZ-NE'EMAN (MODEL, CABIBBO-HORWITZ-NE'EMAN)
*CABIBBO-MAIANI-PREPARATA (MODEL, CABIBBO-MAIANI-PREPARATA)
*CABIBBO-RADICATI ('SUM RULE, CABIBBO-RADICATI' AND 'CURRENT ALGEBRA')
CADMIUM
CALCIUM
-CALCULATIONS (SEE 'NUMERICAL CALCULATIONS')
CALIBRATION
CALIFORNIUM
-CALLAN-SYMANZIK EQUATIONS ('AXIOMATIC FIELD THEORY' AND 'PERTURBATION THEORY')
-CALLAN-TREIMAN RELATION (CURRENT ALGEBRA + MESON, LEPTONIC DECAY)
-CALORIMETER (BEAM CALIBRATION?)
*CAMBRIDGE ES
*CANESCHI-PIGNOTTI (MODEL, CANESCHI-PIGNOTTI)
CAPTURE
CARBON
*CARLITZ-KISLINGER (MODEL, CARLITZ-KISLINGER)
CASCADE (ALSO 'MODEL, CASCADE')
-CASTILLEJO-DALITZ-DYSON POLES (PARTIAL WAVE, DISPERSION RELATIONS)
-CAUSALITY (GENERALLY 'DISPERSION RELATIONS')
-CDD POLES (PARTIAL WAVE, DISPERSION RELATIONS)
CERAMICS
CERIUM
*CERN CYCL (AT GENEVA)
*CERN STOR (AT GENEVA)
*CERN1 PS (AT GENEVA)
*CERN2 PS (AT GENEVA)
CESIUM
-CGL (DISPERSION RELATIONS, CHEW-GOLDBERGER-LOW)
-CGLN (DISPERSION RELATIONS, CHEW-GOLDBERGER-LOW-NAMBU)
*CHAN-LOSKIEWICZ-ALLISON (MODEL, CHAN-LOSKIEWICZ-ALLISON)
-CHANNEL (NOT TRANSLATED)
CHARGE
*CHARGE CONJUGATION ('INVARIANCE, CHARGE CONJUGATION' OR 'VIOLATION, CHARGE CONJUGATION' OR 'QUANTUM NUMBER, CHARGE CONJUGATION')
CHARGE DISTRIBUTION (ONLY FOR NUCLEI. FOR PARTICLES SEE 'FORM FACTOR')
CHARGE EXCHANGE
-CHARGE STATISTICS (CHARGE, STATISTICS)
*CHARGED SCALAR (EXCHANGE, CHARGED SCALAR)
-CHARGED SCALAR STATIC MODEL ('MODEL, STATIC' AND 'EXCHANGE, CHARGED SCALAR')
-CHARPAK CHAMBER (PROPORTIONAL WIRE CHAMBER)
CHEMICALS
CHEMISTRY
*CHENG-WU (MODEL, CHENG-WU)
*CHERENKOV (RADIATION, CHERENKOV)
CHERENKOV COUNTER
-CHERENKOV RADIATION (RADIATION, CHERENKOV)
-CHEW-FRAUTSCHI PLOT ('REGGE POLES')
*CHEW-GOLDBERGER-LOW (DISPERSION RELATIONS, CHEW-GOLDBERGER-LOW)
*CHEW-GOLDBERGER-LOW-NAMBU (DISPERSION RELATIONS, CHEW-GOLDBERGER-LOW-NAMBU)
-CHEW-LOW MODEL (MODEL, FIELD THEORY + S-MATRIX)
*CHEW-MANDELSTAM (MODEL, CHEW-MANDELSTAM)
*CHEW-PIGNOTTI (MODEL, CHEW-PIGNOTTI)
*CHIRAL (GENERALLY: SYMMETRY, CHIRAL)
CHLORINE
*CHOU-YANG (MODEL, CHOU-YANG)
CHROMIUM
-CLA (MODEL, CHAN-LOSKIEWICZ-ALLISON)
-CLEBSCH-GORDAN COEFFICIENTS (GROUP THEORY, ANGULAR MOMENTUM)
*CLEMENTEL-VILLI (MODEL, CLEMENTEL-VILLI + NUCLEON, FORM FACTOR)
*CLOSURE (APPROXIMATION, CLOSURE)
CLOUD CHAMBER
*CLUSTER (MODEL, CLUSTER)
COBALT
*COHERENT INTERACTION (ALSO 'MODEL, COHERENT INTERACTION')
*COHERENT PRODUCTION
-COHERENT STATE MODEL (MODEL, GLAUBER)
COIL
-COINCIDENCE CIRCUIT (FAST LOGIC)
COINCIDENCE METHOD (ELECTRONIC COINCIDENCE METHODS: 'FAST LOGIC')
*COLLECTIVE (ACCELERATOR, COLLECTIVE)
COLLIDING BEAMS
COMMUNICATIONS
-COMMUTATION RELATIONS
*COMMUTATOR (FIELD THEORY, COMMUTATOR)
-COMPARISON OF EXPERIMENTAL RESULTS (INTERPRETATION OF EXPERIMENTAL RESULTS)
*COMPOSITE (MODEL, COMPOSITE)
-COMPOSITE BOSON (MODEL, BOSON + MODEL, COMPOSITE)
-COMPOSITE PARTICLE MODEL (MODEL, COMPOSITE)
*COMPOUND NUCLEUS ('NUCLEAR REACTION, COMPOUND NUCLEUS')
COMPOUNDS
COMPTON SCATTERING
COMPUTER
CONCRETE
CONFERENCE
-CONFIGURATION MIXING (INTERFERENCE, CONFIGURATION)
-CONFIGURATION SPACE
*CONFORMAL
CONSERVATION LAW
*CONSERVED A-V CURRENT (MODEL, CONSERVED A-V CURRENT)
*CONSERVED VECTOR CURRENT (MODEL, CONSERVED VECTOR CURRENT)
*CONSPIRACY (REGGE POLES, CONSPIRACY)
*CONTINUOUS MASS ('SUM RULE, CONTINUOUS MASS')
*CONTINUOUS MOMENT ('SUM RULE, CONTINUOUS MOMENT')
CONTROL SYSTEM
COPPER
*CORNELL ES
CORRECTION
CORRELATION
COSMIC RADIATION
-COULOMB DISSOCIATION (NUCLEAR REACTION, COULOMB SCATTERING)
*COULOMB SCATTERING
COUNTERS AND DETECTORS
COUPLING
COUPLING CONSTANT (RESTRICTED USE, ONLY IN COMBINATIONS WITH PARTICLES)
-COVARIANCE (INVARIANCE, LORENTZ)
*CP ('INVARIANCE, CP' OR 'VIOLATION, CP')
*CPT ('INVARIANCE, CPT' OR 'VIOLATION, CPT')
CROSS SECTION (RESTRICTED USE, SEE ALSO 'TOTAL CROSS SECTION' AND 'DIFFERENTIAL CROSS SECTION')
*CROSSING (SYMMETRY, CROSSING)
CRYSTAL
CURIUM
CURRENT (RESTRICTED USE)
CURRENT ALGEBRA
-CURRENT COMMUTATOR RELATIONS (CURRENT ALGEBRA)
-CURRENT COMMUTATORS (CURRENT ALGEBRA)
-CURRENT CONSERVATION LAW ('CURRENT, CONSERVATION LAW')
*CURRENT-CURRENT (EITHER 'MODEL, CURRENT-CURRENT' OR 'INTERFERENCE, CURRENT-CURRENT')
-CURRENT-CURRENT MIXING (INTERFERENCE, CURRENT-CURRENT)
*CUTKOSKY-ZACHARIASEN (MODEL, CUTKOSKY-ZACHARIASEN)
-CVC (MODEL, CONSERVED VECTOR CURRENT)
CYCLOTRON

D(1285)
-DAC (PULSE-HEIGHT ANALYZER)
-DALITZ PLOT (KINEMATICS)
*DAMAGE (RADIATION, DAMAGE)
-DATA ANALYSIS (SEE 'INTERPRETATION OF EXPERIMENTS' OR 'TRACK DATA ANALYSIS')
DATA COMPILATION
-DATA HANDLING (SEE 'COMPUTER')
-DATA PRESENTATION (SEE 'INTERPRETATION OF EXPERIMENTS')
DECAY
-DECAY CROSS SECTION (DECAY)
DECAY MODES
*DECK ('EFFECT, DECK')
-DECK MODEL
*DEEP INELASTIC SCATTERING (ALSO 'MODEL, DEEP INELASTIC SCATTERING')
-DEFORMABLE SPHERE MODEL (MODEL, PARTICLE)
-DEFORMED NUCLEUS (NUCLEAR PROPERTIES)
*DEGENERACY ('EXCHANGE, DEGENERACY')
*DELBRUECK (SCATTERING, DELBRUECK)
-DELTA(I)=1/2 (SELECTION RULE, ISOSPIN)
-DELTA(S)=2 (SELECTION RULE, STRANGENESS)
DELTA(1236)
DELTA(1650)
DELTA(1670)
DELTA(1890)
DELTA(1910)
DELTA(1950)
DELTA(2420)
DELTA(2850)
DELTA(3230)
DELTA(962)
DENSITY
*DENSITY MATRIX (GENERALLY 'SPIN, DENSITY MATRIX')
-DENSITY MODEL (MODEL, DUAL RESONANCE)
DEPENDENCE
*DESER-GILBERT-SUDARSHAN (PERTURBATION THEORY, DESER-GILBERT-SUDARSHAN)
*DESY ES (AT HAMBURG)
*DESY STOR (AT HAMBURG)
-DETECTION ('COUNTERS AND DETECTORS' OR 'MEASUREMENT')
DEUTERIUM (ALSO 'MODEL, DEUTERIUM')
DEUTERIUM DEUTERIUM
DEUTERIUM INTERMEDIATE BOSON
DEUTERIUM LIGHT NUCLEUS
-DEUTERIUM MODEL (MODEL, DEUTERIUM)
DEUTERIUM NUCLEUS
DEUTERIUM QUARK
-DEUTERON (DEUTERIUM)
*DHAR-SUDARSHAN (MODEL, DHAR-SUDARSHAN)
DIFFERENTIAL CROSS SECTION
DIFFRACTION
-DIFFRACTION MODEL ('MODEL, DIFFRACTION' OR, EXPERIMENTAL, 'INTERPRETATION OF EXPERIMENTS, DIFFRACTION')
-DIFFRACTION SCATTERING ('DIFFRACTION')
-DIFFRACTION SCATTERING MODEL ('MODEL, DIFFRACTION' OR, EXPERIMENTAL, 'INTERPRETATION OF EXPERIMENTS, DIFFRACTION')
-DIFFRACTIVE DISSOCIATION (MODEL, DIFFRACTION)
DIFFUSION
-DIFFUSION CHAMBER (CLOUD CHAMBER)
DIGITAL LOGIC
-DIGITAL-ANALOG CONVERTER (PULSE-HEIGHT ANALYZER)
-DIGITAL-DIGITAL CIRCUIT (DIGITAL LOGIC)
-DILATATION (SYMMETRY, DILATION)
*DILATION (SYMMETRY, DILATION)
*DIP MECHANISM (MODEL, DIP MECHANISM)
*DIPION
-DIRAC EQUATION ('FIELD EQUATIONS' OR 'QUANTUM MECHANICS, RELATIVISTIC')
-DIRAC PARTICLE ('FERMION', SEE ALSO 'FIELD EQUATIONS' OR 'ELECTROMAGNETIC, RADIATION')
*DIRECT REACTION ('NUCLEAR REACTION, DIRECT REACTION')
-DISCHARGE CHAMBER (SPARK CHAMBER)
-DISCRIMINATOR (USUALLY 'PULSE-HEIGHT ANALYZER', IN NANOSECOND RANGE: FAST LOGIC)
*DISPERSION
DISPERSION RELATIONS
-DISPERSION THEORY (DISPERSION RELATIONS)
-DISPLAY (FREQUENTLY: PULSE-HEIGHT ANALYZER)
*DISSOCIATION ('DIFFRACTION, DISSOCIATION')
*DISTORTED WAVE BORN (APPROXIMATION, DISTORTED WAVE BORN)
-DISTRIBUTION FUNCTION
DOSIMETRY
-DOUBLE EXCHANGE (SEE EITHER 'DOUBLE REGGE EXCHANGE' OR 'RADIATIVE CORRECTION' OR 'FINAL-STATE INTERACTION' + 'EXCHANGE')
*DOUBLE PERIPHERAL (MODEL, DOUBLE PERIPHERAL)
*DOUBLE REGGE EXCHANGE (MODEL, DOUBLE REGGE EXCHANGE')
*DOUBLE REGGE POLE (MODEL, DOUBLE REGGE POLE)
-DOUBLE SCATTERING (MULTIPLE SCATTERING)
-DOUBLE SPECTRAL FUNCTION (MANDELSTAM REPRESENTATION)
-DOUBLET (POSSIBLY 'MASS DIFFERENCE')
*DRELL ('MODEL, DRELL' + 'MODEL, DEEP INELASTIC SCATTERING') OR, FOR DRELL EFFECT, ('MESON, PHOTOPRODUCTION' + 'EXCHANGE, ONE-MESON')
-DRELL-LEVY-YAN MODEL (MODEL, PARTON + CURRENT ALGEBRA)
-DRELL-YAN ('MODEL, PARTON')
-DRESSED PARTICLE (MODEL, PARTICLE)
*DROPLET (MODEL, DROPLET)
*DUAL RESONANCE ('MODEL, DUAL RESONANCE')
DUALITY (USUALLY WITHOUT 'REGGE POLES')
*DUBNA CYCL
*DUBNA PS
*DUERR-PILKUHN (MODEL, DUERR-PILKUHN)
-DYNAMICAL (NOT USED)
DYSPROSIUM

D

E(1422)
EFFECT
*EFFECTIVE LAGRANGIANS ('CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS', OR 'FIELD THEORY, EFFECTIVE LAGRANGIANS')
-EFFECTIVE MASS
*EFFECTIVE RANGE (APPROXIMATION, EFFECTIVE RANGE)
-EIGHTFOLD WAY (SYMMETRY, SU(3))
*EIKONAL ('APPROXIMATION, EIKONAL' OR 'REGGE CUT')
EINSTEINIUM
EJECTION
-ELASTIC CROSS SECTION ('ELASTIC SCATTERING')
ELASTIC SCATTERING
ELECTRIC MOMENT
ELECTRICAL ENGINEERING
ELECTRICITY
ELECTROFISSION
ELECTROMAGNETIC
ELECTROMAGNETIC INTERACTION (ALSO: 'MODEL, ELECTROMAGNETIC INTERACTION')
-ELECTROMAGNETIC MIXING (INTERFERENCE, ELECTROMAGNETIC (RESTRICTED USE))
ELECTRON
ELECTRON ANTI-K
ELECTRON ANTI-N
ELECTRON ANTI-P
ELECTRON ANTIBARYON
ELECTRON ANTIHYPERON
ELECTRON ANTILAMBDA
ELECTRON ANTINUCLEON
ELECTRON ANTISIGMA
ELECTRON ANTIXI
ELECTRON BARYON
ELECTRON BARYON RESONANCE
ELECTRON BOSON
ELECTRON DEUTERIUM
ELECTRON ELECTRON
ELECTRON HADRON
ELECTRON HYPERON
ELECTRON INTERMEDIATE BOSON
ELECTRON K
ELECTRON K+
ELECTRON K-
ELECTRON KO
ELECTRON LAMBDA
ELECTRON LIGHT NUCLEUS
ELECTRON MESON
ELECTRON MESON RESONANCE
ELECTRON MUON
ELECTRON MUON+
ELECTRON MUON-
ELECTRON N
-ELECTRON NEUTRINO (NEUTRINO, ELECTRON)
ELECTRON NUCLEON
ELECTRON NUCLEUS
ELECTRON OMEGA-
ELECTRON P
ELECTRON PI
ELECTRON PI+
ELECTRON PI-
ELECTRON PIO
ELECTRON POSITRON
ELECTRON QUARK
*ELECTRON RING (ACCELERATOR, ELECTRON RING)
ELECTRON SIGMA
ELECTRON SIGMA+
ELECTRON SIGMA-
ELECTRON SIGMAO
ELECTRON SYNCHROTRON
ELECTRON VECTOR MESON
ELECTRON XI
ELECTRON XI-
ELECTRON XIO
ELECTRONICS
ELECTROPRODUCTION
ELECTROSTATIC ACCELERATOR
ELECTROSTATIC SEPARATOR
ELEMENTS
EMISSION
ENERGY
ENERGY LEVELS
ENERGY LOSS
ENERGY RANGE 0.1 GEV AND BELOW
ENERGY RANGE 0.1 TO 2 GEV
ENERGY RANGE 2 TO 5 GEV
ENERGY RANGE 5 GEV AND ABOVE
ENERGY SPECTRUM
-ENERGY-RANGE RELATION ('ENERGY LOSS')
*ENHANCEMENT ('TOTAL CROSS SECTION, ENHANCEMENT', 'DIFFERENTIAL CROSS SECTION, ENHANCEMENT' 'CROSS SECTION, ENHANCEMENT', 'MASS, ENHANCEMENT')
EPSILON(700-1000)
-EQUAL-TIME COMMUTATOR ('CURRENT ALGEBRA' OR 'FIELD THEORY')
ERBIUM
*EREVAN ES
-ETA ETA' MIXING' (INTERFERENCE, ETA(549)-ETA'(958))
ETA(1070)
ETA(549)
-ETA(700-1000) ('EPSILON(700-1000')')
ETA'(958)
EUROPIUM
EXCHANGE
*EXCHANGE DEGENERACY (REGGE POLES + EXCHANGE, DEGENERACY)
-EXCHANGE INTERFERENCE (EXCHANGE, INTERFERENCE)
-EXCHANGE MODEL (EXCHANGE)
EXCITED NUCLEUS
EXCITED STATE
*EXCLUSIVE REACTION (WITH PARTICLES, E.G. 'ELECTRON P, EXCLUSIVE REACTION'; IF NOT POSSIBLE, 'MODEL, EXCLUSIVE REACTION')
*EXOTIC (COMBINATIONS USED: 'RESONANCE, EXOTIC' 'MESON RESONANCE, EXOTIC' 'BARYON RESONANCE, EXOTIC')
*EXPERIMENTAL EQUIPMENT
*EXPERIMENTAL METHODS
*EXPERIMENTAL RESULTS
*EXTENDED PARTICLE (MODEL, EXTENDED PARTICLE)
*EXTENSIVE (SHOWERS, EXTENSIVE)
*EXTERNAL ('SYMMETRY, EXTERNAL')

E

*F MESON DOMINANCE (MODEL, F MESON DOMINANCE)
F(1260)
F'(1514)
-FABBRI PLOT (KINEMATICS)
-FACTORIZATION ('ANALYTIC PROPERTIES')
-FADDEEV EQUATIONS (MANY-BODY PROBLEM)
-FAN-IN, FAN-OUT (FAST LOGIC)
FAST LOGIC
-FELDMAN ('MODEL, WEINBERG')
*FERMI-YANG (MODEL, FERMI-YANG)
FERMION (ALSO 'MODEL, FERMION + STATISTICS' FOR FERMION MODEL)
FERMION ANTI-K
FERMION ANTI-N
FERMION ANTI-P
FERMION ANTIBARYON
FERMION ANTIHYPERON
FERMION ANTILAMBDA
FERMION ANTINEUTRINO
FERMION ANTINUCLEON
FERMION ANTISIGMA
FERMION ANTIXI
FERMION BARYON
FERMION BARYON RESONANCE
FERMION BOSON
FERMION DEUTERIUM
FERMION ELECTRON
FERMION FERMION
FERMION HADRON
FERMION HYPERON
FERMION INTERMEDIATE BOSON
FERMION K
FERMION K+
FERMION K-
FERMION KO
FERMION LAMBDA
FERMION LIGHT NUCLEUS
FERMION MESON
FERMION MESON RESONANCE
-FERMION MODEL (STATISTICS + MODEL, FERMION)
FERMION MUON
FERMION MUON+
FERMION MUON-
FERMION N
FERMION NEUTRINO
FERMION NUCLEON
FERMION NUCLEUS
FERMION OMEGA-
FERMION P
FERMION PI
FERMION PI+
FERMION PI-
FERMION PIO
FERMION POSITRON
FERMION QUARK
FERMION SIGMA
FERMION SIGMA+
FERMION SIGMA-
FERMION SIGMAO
FERMION VECTOR BOSON
FERMION XI
FERMION XI-
FERMION XIO
FERMIUM
-FESR (SUM RULE, FINITE ENERGY)
FEYNMAN GRAPH (EITHER 'FEYNMAN GRAPH' OR 'PERTURBATION THEORY', RESTRICTED USE)
-FEYNMAN INTEGRAL (USE 'FEYNMAN GRAPH')
-FEYNMAN PATH (SEE 'ANALYTIC PROPERTIES')
-FFAG (SYNCHROTRON OR CYCLOTRON)
FIELD EQUATIONS
-FIELD THEORETICAL MODEL (MODEL, FIELD THEORY (RESTRICTED USE))
FIELD THEORY
*FINAL STATE
*FINAL STATES
FINAL-STATE INTERACTION
*FINE STRUCTURE ('ATOMIC PHYSICS, FINE STRUCTURE')
*FINITE ENERGY ('SUM RULE, FINITE ENERGY')
*FINITE MASS ('SUM RULE, FINITE MASS')
*FINITE MOMENT ('SUM RULE, FINITE MOMENT')
*FIREBALL (MODEL, FIREBALL)
FISSION
-FIT (INTERPRETATION OF EXPERIMENTS, (THEORETICAL ADDITIVES))
*FIXED POLE (MODEL, FIXED POLE)
FLUORINE
FLUX
FLUX DISTRIBUTION
*FORBUSH (COSMIC RADIATION, FORBUSH)
FORCES
FORM FACTOR
*FORMULA (GENERALLY 'MASS, FORMULA')
*FOUR-COMPONENT NEUTRINO (MODEL, FOUR-COMPONENT NEUTRINO)
*FOUR-FERMION INTERACTION (MODEL, FOUR-FERMION INTERACTION)
FOUR-PI COUNTER
*FRAGMENTATION ('BEAM, FRAGMENTATION' OR 'TARGET, FRAGMENTATION' OR, MORE GENERAL, 'MULTIPLE PRODUCTION, FRAGMENTATION')
FRANCIUM
*FRASCATI ES
*FRASCATI STOR
*FRIEDMON (MODEL, FRIEDMON)
*FROISSART BOUND (HIGH ENERGY BEHAVIOR, FROISSART BOUND)
-FROISSART-GRIBOV MODEL ('PARTIAL WAVE, DISPERSION RELATIONS')
*FUBINI (MODEL, FUBINI)
*FUBINI-FURLAN (MODEL, FUBINI-FURLAN)
*FUBINI-GORDON-VENEZIANO (MODEL, FUBINI-GORDON-VENEZIANO)
-FUNCTION
FUSION
-F1 MESON RESONANCE ('PI/RHO(1540)')

F

-G MESON RESONANCE ('RHO(1660)')
*G PARITY (QUANTUM NUMBER, G PARITY)
-G-2 (MAGNETIC MOMENT)
GADOLINIUM
GALLIUM
-GAMMA MONOCHROMATOR (PHOTON, MONOCHROMATIC BEAM)
GAS
-GATE (LINEAR GATE: ANALOG CIRCUIT, LOGIC GATE: DIGITAL LOGIC)
*GAUGE ('INVARIANCE, GAUGE' OR 'TRANSFORMATION, GAUGE')
GEIGER-MUELLER COUNTER
*GELL-MANN-OAKES-RENNER ('MODEL, GELL-MANN-OAKES-RENNER')
*GELL-MANN-OKUBO (MODEL, GELL-MANN-OKUBO)
*GENERAL (RELATIVITY THEORY, GENERAL)
-GENERALIZED VECTOR DOMINANCE ('MODEL, VECTOR DOMINANCE')
GERMANIUM
-GIANT RESONANCE (NUCLEAR PROPERTIES + RESONANCE)
GLASS
*GLAUBER (MODEL, GLAUBER)
*GLUON (MODEL, GLUON)
GOLD
-GOLDBERGER-TREIMAN RELATION (MODEL, PCAC + PI, DECAY)
*GOLDHABER-TELLER (MODEL, GOLDHABER-TELLER)
-GOLDSTONE BOSON (FIELD THEORY, GOLDSTONE THEOREM)
-GOLDSTONE MODEL (MODEL, FIELD THEORY)
*GOLDSTONE THEOREM (FIELD THEORY, GOLDSTONE THEOREM)
GRAVITATION
-GRAVITATIONAL RADIATION ('GRAVITATION, RADIATION')
-GRAVITATIONAL WAVES ('GRAVITATION, RADIATION')
*GRAVITON (MODEL, GRAVITON)
-GREEN FUNCTION ('MATHEMATICS' OR 'FIELD THEORY')
-GRIBOV-POMERANCHUK (ANALYTIC PROPERTIES)
GROUP THEORY

G

HADRON
HADRON ANTI-K
HADRON ANTI-N
HADRON ANTI-P
HADRON ANTIBARYON
HADRON ANTIHYPERON
HADRON ANTILAMBDA
HADRON ANTINUCLEON
HADRON ANTISIGMA
HADRON ANTIXI
HADRON BARYON
HADRON BARYON RESONANCE
HADRON BOSON
HADRON DEUTERIUM
HADRON HADRON
HADRON HYPERON
HADRON INTERMEDIATE BOSON
HADRON K
HADRON K+
HADRON K-
HADRON KO
HADRON LAMBDA
HADRON LIGHT NUCLEUS
HADRON MESON
HADRON MESON RESONANCE
-HADRON MODEL (MODEL, PARTICLE)
HADRON N
HADRON NUCLEON
HADRON NUCLEUS
HADRON OMEGA-
HADRON P
HADRON PI
HADRON PI+
HADRON PI-
HADRON PIO
HADRON QUARK
HADRON SIGMA
HADRON SIGMA+
HADRON SIGMA-
HADRON SIGMAO
HADRON VECTOR MESON
HADRON XI
HADRON XI-
HADRON XIO
HAFNIUM
-HAGEDORN MODEL (MODEL, THERMODYNAMICAL)
*HAN-NAMBU (MODEL, HAN-NAMBU)
*HARARI (MODEL, HARARI)
-HARD MESON (CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS)
-HARD PHOTON ('RADIATIVE CORRECTION')
-HARD PION (CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS)
-HARMONIC OSCILLATOR (MODEL, OSCILLATOR)
*HARTREE-FOCK ('APPROXIMATION, HARTREE-FOCK' FOR SELF-CONSISTENT CALCULATIONS IN QUANTUM MECHANICS)
HEALTH PHYSICS
HEAT ENGINEERING
*HEAVY ION
*HEAVY LEPTON ('POSTULATED PARTICLE, HEAVY LEPTON')
HEAVY WATER
*HELICITY (RESTRICTED USE ONLY FOR HELICITY CROSSING MATRIX: 'SPIN, HELICITY')
HELIUM
-HIDDEN VARIABLES (QUANTUM MECHANICS)
-HIGGS-KIBBLE ('MODEL, WEINBERG')
*HIGH (MOMENTUM TRANSFER, HIGH)
HIGH ENERGY BEHAVIOR (ONLY FOR THEORETICAL MODELS IN THE ASYMPTOTIC RANGE, ONLY USED WHERE CONTENT IS NOT IMPLICITLY CONTAINED IN OTHER KEYWORDS SUCH AS 'REGGE POLES')
*HIGHER-ORDER (RESTRICTED USE, PREFERABLY WITH INTERACTIONS, E.G. 'WEAK INTERACTION, HIGHER-ORDER' OTHERWISE WITH FIELD THEORY- 'FIELD THEORY, HIGHER-ORDER', ALSO 'MAGNETIC MOMENT, HIGHER-ORDER' (FROM SIXTH ORDER ON. NOT USED FOR KO ANTI-KO))
-HILBERT SPACE (QUANTUM MECHANICS)
HOLMIUM
*HWA ('MODEL, HWA')
*HYDRODYNAMICAL (MODEL, HYDRODYNAMICAL)
HYDROGEN
*HYPERCHARGE ('QUANTUM NUMBER, HYPERCHARGE' OR 'STRANGENESS')
HYPERFINE STRUCTURE
HYPERFRAGMENT
-HYPERNUCLEUS ('HYPERFRAGMENT')
HYPERON
HYPERON ANTIHYPERON
HYPERON ANTILAMBDA
HYPERON ANTISIGMA
HYPERON ANTIXI
HYPERON BARYON RESONANCE
HYPERON DEUTERIUM
HYPERON HYPERON
HYPERON INTERMEDIATE BOSON
HYPERON LAMBDA
HYPERON LIGHT NUCLEUS
HYPERON NUCLEUS
HYPERON OMEGA-
HYPERON QUARK
HYPERON SIGMA
HYPERON SIGMA+
HYPERON SIGMA-
HYPERON SIGMAO
HYPERON VECTOR MESON
HYPERON XI
HYPERON XI-
HYPERON XIO

*IMPACT PARAMETER (MODEL, IMPACT PARAMETER)
*IMPULSE (APPROXIMATION, IMPULSE)
*INCLUSIVE REACTION (WITH PARTICLES, E.G. 'ELECTRON P, INCLUSIVE REACTION'; IF NOT POSSIBLE: 'MODEL, INCLUSIVE REACTION')
*INDEPENDENT PARTICLE (MODEL, INDEPENDENT PARTICLE)
INDIUM
-INELASTIC SCATTERING (EITHER, E.G., 'ELECTRON P, INTERACTION' OR, E.G., 'ELECTRON P, DEEP INELASTIC SCATTERING')
*INFINITE-COMPONENT WAVE EQUATION (CURRENT ALGEBRA, INFINITE-COMPONENT WAVE EQUATION)
INJECTION
INORGANIC COMPOUNDS
-INSTABILITY (SEE 'BEAM OSCILLATION' OR 'SYNCHROTRON OSCILLATION' OR 'BETATRON OSCILLATION')
*INTERACTION (FOR NOVEL INTERACTIONS: 'MODEL, INTERACTION')
INTERFERENCE
INTERMEDIATE BOSON (ALSO 'MODEL, INTERMEDIATE BOSON')
INTERMEDIATE NUCLEUS
*INTERNAL (SYMMETRY, INTERNAL)
-INTERNUCLEAR CASCADE ('CASCADE')
*INTERPRETATION OF EXPERIMENTS
*INTRANUCLEAR CASCADE (MODEL, INTRANUCLEAR CASCADE)
INVARIANCE
-INVERSE
IODINE
ION
-ION RING ACCELERATOR ('ACCELERATOR, ELECTRON RING')
IONIZATION
-IONIZATION CALORIMETER (IONIZATION CHAMBER + BEAM CALIBRATION)
IONIZATION CHAMBER
IRIDIUM
IRON
*ISOBAR (MODEL, ISOBAR)
*ISOCHRONOUS (CYCLOTRON, ISOCHRONOUS)
ISOSPIN

-JACOB-SLANSKY ('MODEL, MULTIPLE PRODUCTION')
*JAPANESE NL PS (AT IBARAKI)
*JET (MODEL, JET)
*JIN-MARTIN BOUND (HIGH ENERGY BEHAVIOR, JIN-MARTIN BOUND)
*JOHNSON-TREIMAN (SYMMETRY, JOHNSON-TREIMAN + SYMMETRY, SU(6))
-JOST FUNCTION (POTENTIAL SCATTERING)
-JOST-LEHMANN-DYSON REPRESENTATION (FIELD THEORY, COMMUTATOR)

J

K
K ANTI-K
K ANTI-N
K ANTI-P
K ANTIBARYON
K ANTIHYPERON
K ANTILAMBDA
K ANTINUCLEON
K ANTISIGMA
K ANTIXI
K BARYON
K BARYON RESONANCE
K DEUTERIUM
K HYPERON
K INTERMEDIATE BOSON
K K
K K+
K K-
K KO
K LAMBDA
K LIGHT NUCLEUS
K MESON RESONANCE
K N
K NUCLEON
K NUCLEUS
K OMEGA-
K P
K QUARK
K SIGMA
K SIGMA+
K SIGMA-
K SIGMAO
K VECTOR MESON
K XI
K XI-
K XIO
*K(L)
*K(S)
*K(S)-K(L)
-K(1240) (Q REGION)
-K(1280-1400) (Q REGION)
K(1420)
K+
K+ ANTI-N
K+ ANTI-P
K+ ANTIBARYON
K+ ANTIHYPERON
K+ ANTILAMBDA
K+ ANTINUCLEON
K+ ANTISIGMA
K+ ANTIXI
K+ BARYON
K+ BARYON RESONANCE
K+ DEUTERIUM
K+ HYPERON
K+ INTERMEDIATE BOSON
K+ K+
K+ K-
K+ LAMBDA
K+ LIGHT NUCLEUS
K+ MESON RESONANCE
K+ N
K+ NUCLEON
K+ NUCLEUS
K+ OMEGA-
K+ P
K+ QUARK
K+ SIGMA
K+ SIGMA+
K+ SIGMA-
K+ SIGMAO
K+ VECTOR MESON
K+ XI
K+ XI-
K+ XIO
-K* EXCHANGE (EXCHANGE, K*(892))
K*(892)
K-
K- ANTI-N
K- ANTI-P
K- ANTIBARYON
K- ANTIHYPERON
K- ANTILAMBDA
K- ANTINUCLEON
K- ANTISIGMA
K- ANTIXI
K- BARYON
K- BARYON RESONANCE
K- DEUTERIUM
K- HYPERON
K- INTERMEDIATE BOSON
K- K-
K- LAMBDA
K- LIGHT NUCLEUS
K- MESON RESONANCE
K- N
K- NUCLEON
K- NUCLEUS
K- OMEGA-
K- P
K- QUARK
K- SIGMA
K- SIGMA+
K- SIGMA-
K- SIGMAO
K- VECTOR MESON
K- XI
K- XI-
K- XIO
*KAPPA DOMINANCE (MODEL, KAPPA DOMINANCE)
*KHARKOV LINAC
-KHURI REPRESENTATION (REGGE POLES, MODEL)
-KIBBLE-HIGGS ('MODEL, WEINBERG')
*KIKKAWA-SAKITA-VIRASORO (MODEL, KIKKAWA-SAKITA-VIRASORO)
*KIKKAWA-SATO (MODEL, KIKKAWA-SATO)
-KINEMATIC SUPERSTRUCTURE (DUALITY)
KINEMATICS
-KLEIN-GORDON EQUATION ('FIELD EQUATIONS' OR 'QUANTUM MECHANICS, RELATIVISTIC')
-KOBA-NIELSEN ('MODEL, DUAL RESONANCE')
*KRAMER-URETSKY-QUINN (MODEL, KRAMER-URETSKY-QUINN)
KRYPTON
KO
KO ANTI-N
KO ANTI-P
KO ANTIBARYON
KO ANTIHYPERON
KO ANTILAMBDA
KO ANTINUCLEON
KO ANTISIGMA
KO ANTIXI
KO BARYON
KO BARYON RESONANCE
KO DEUTERIUM
KO HYPERON
KO INTERMEDIATE BOSON
KO K+
KO K-
KO KO
KO LAMBDA
KO LIGHT NUCLEUS
KO MESON RESONANCE
KO N
KO NUCLEON
KO NUCLEUS
KO OMEGA-
KO P
KO QUARK
KO SIGMA
KO SIGMA+
KO SIGMA-
KO SIGMAO
KO VECTOR MESON
KO XI
KO XI-
KO XIO

K

L(1770)
*LADDER (APPROXIMATION, LADDER)
-LAGRANGIAN MODEL (FIELD THEORY)
-LAMB SHIFT (RADIATIVE CORRECTION + ATOM, ENERGY LEVELS. POSSIBLY ALSO: 'QUANTUM ELECTRODYNAMICS, VALIDITY TEST')
LAMBDA
LAMBDA ANTILAMBDA
LAMBDA ANTISIGMA
LAMBDA ANTIXI
LAMBDA BARYON RESONANCE
LAMBDA DEUTERIUM
LAMBDA INTERMEDIATE BOSON
LAMBDA LAMBDA
LAMBDA LIGHT NUCLEUS
LAMBDA NUCLEUS
LAMBDA OMEGA-
LAMBDA QUARK
LAMBDA SIGMA
LAMBDA SIGMA+
LAMBDA SIGMA-
LAMBDA SIGMAO
LAMBDA VECTOR MESON
LAMBDA XI
LAMBDA XI-
LAMBDA XIO
LAMBDA(1405)
LAMBDA(1815)
LAMBDA(1830)
LAMBDA(2100)
LAMBDA(2350)
LAMBDA'(1520)
LAMBDA'(1670)
LAMBDA''(1690)
*LAMPF LINAC (AT LOS ALAMOS)
LANTHANUM
*LASER (GENERALLY, 'OPTICS, LASER')
LAWRENCIUM
LEAD
LECTURES
-LEE (SEE 'MODEL, WEINBERG')
-LEE MODEL (MODEL, FIELD THEORY)
-LEHMANN ELLIPSE (ANALYTIC PROPERTIES)
-LEHMANN-SYMANZIK-ZIMMERMANN FORMALISM (FIELD THEORY)
*LENGTH ('SCATTERING, LENGTH')
LEPTON
LEPTON ANTI-K
LEPTON ANTI-N
LEPTON ANTI-P
LEPTON ANTIBARYON
LEPTON ANTIHYPERON
LEPTON ANTILAMBDA
LEPTON ANTINEUTRINO
LEPTON ANTINUCLEON
LEPTON ANTISIGMA
LEPTON ANTIXI
LEPTON BARYON
LEPTON BARYON RESONANCE
LEPTON BOSON
LEPTON DEUTERIUM
LEPTON ELECTRON
LEPTON FERMION
LEPTON HADRON
LEPTON HYPERON
LEPTON INTERMEDIATE BOSON
LEPTON K
LEPTON K+
LEPTON K-
LEPTON KO
LEPTON LAMBDA
LEPTON LEPTON
LEPTON LIGHT NUCLEUS
LEPTON MESON
LEPTON MESON RESONANCE
LEPTON MUON
LEPTON MUON+
LEPTON MUON-
LEPTON N
LEPTON NEUTRINO
LEPTON NUCLEON
LEPTON NUCLEUS
-LEPTON NUMBER ('QUANTUM NUMBER, LEPTON')
LEPTON OMEGA-
LEPTON P
LEPTON PI
LEPTON PI+
LEPTON PI-
LEPTON PIO
LEPTON POSITRON
LEPTON QUARK
LEPTON SIGMA
LEPTON SIGMA+
LEPTON SIGMA-
LEPTON SIGMAO
LEPTON VECTOR MESON
LEPTON XI
LEPTON XI-
LEPTON XIO
LEPTONIC DECAY
-LEVEL CONVERTER (DIGITAL LOGIC)
*LIE (GROUP THEORY, LIE)
LIFETIME
LIGHT CONE BEHAVIOR
LIGHT NUCLEUS
LIGHT NUCLEUS INTERMEDIATE BOSON
LIGHT NUCLEUS LIGHT NUCLEUS
LIGHT NUCLEUS NUCLEUS
LIGHT NUCLEUS QUARK
-LIMITER (FAST LOGIC)
-LIMITING FRAGMENTATION (MODEL, FRAGMENTATION)
-LINE REVERSAL
LINEAR ACCELERATOR
-LINEAR AMPLIFIER (ANALOG CIRCUIT)
-LINEAR GATE (ANALOG CIRCUIT)
-LIPPMANN-SCHWINGER-ZIMMERMANN FORMALISM (AXIOMATIC FIELD THEORY)
LIQUID
LITHIUM
-LOCALITY (AXIOMATIC FIELD THEORY)
-LOCALIZATION (AXIOMATIC FIELD THEORY)
-LOGIC (IF DIGITAL, 'DIGITAL LOGIC', IF IN NANOSECOND RANGE, 'FAST LOGIC')
-LOGIC GATE (DIGITAL LOGIC)
-LONG RANGE (SEE 'FORCES')
*LONGITUDINAL (RESTRICTED USE)
-LONGITUDINAL BEAM OSCILLATION (SYNCHROTRON OSCILLATION)
*LONGITUDINAL PHASE SPACE ANALYSIS ('MULTIPLE PRODUCTION, LONGITUDINAL PHASE SPACE ANALYSIS')
*LORENTZ ('GROUP THEORY, LORENTZ' OR 'INVARIANCE, LORENTZ')
*LOW (MOMENTUM TRANSFER, LOW)
LOW TEMPERATURE
-LOW-ENERGY THEOREM ('CURRENT ALGEBRA')
-LPS ANALYSIS ('MULTIPLE PRODUCTION, LONGITUDINAL PHASE SPACE ANALYSIS')
-LSZ FORMALISM (FIELD THEORY)
*LUMINOSITY (STORAGE RING, LUMINOSITY)
*LUND ES
LUTETIUM

MAGNESIUM
MAGNET
MAGNETIC MOMENT
*MAGNETIC MONOPOLE ('POSTULATED PARTICLE, MAGNETIC MONOPOLE')
MAGNETIC SPECTROMETER
*MAGNETOSTRICTIVE (SPARK CHAMBER, MAGNETOSTRICTIVE)
MANDELSTAM REPRESENTATION
MANGANESE
MANUAL
MANY-BODY PROBLEM
*MANY-BOSON (EXCHANGE, MANY-BOSON)
MASS
MASS DIFFERENCE
-MASS SPLITTING (MASS DIFFERENCE)
-MASS-ZERO PIONS (PI, MASSLESS)
*MASSIVE
*MASSLESS
MATHEMATICS
MATTER
MEASUREMENT
MECHANICAL ENGINEERING
MECHANICS
-MEDICINE (SEE 'HEALTH PHYSICS')
-MEMORY (FREQUENTLY 'PULSE-HEIGHT ANALYZER')
MENDELEVIUM
MERCURY
-MESIC ATOM ('MESON, ATOM')
MESON (ALSO: 'MODEL, MESON')
MESON ANTI-K
MESON ANTI-N
MESON ANTI-P
MESON ANTIBARYON
MESON ANTIHYPERON
MESON ANTILAMBDA
MESON ANTINUCLEON
MESON ANTISIGMA
MESON ANTIXI
MESON BARYON
MESON BARYON RESONANCE
MESON BOSON
*MESON DECAY (MODEL, MESON DECAY)
MESON DEUTERIUM
*MESON DOMINANCE (MODEL, MESON DOMINANCE)
-MESON EXCHANGE (EXCHANGE, MESON)
MESON HYPERON
MESON INTERMEDIATE BOSON
MESON K
MESON K+
MESON K-
MESON KO
MESON LAMBDA
MESON LIGHT NUCLEUS
MESON MESON
MESON MESON RESONANCE
MESON N
MESON NUCLEON
MESON NUCLEUS
MESON OMEGA-
MESON P
MESON PI
MESON PI+
MESON PI-
MESON PIO
MESON QUARK
MESON RESONANCE
MESON RESONANCE ANTI-N
MESON RESONANCE ANTI-P
MESON RESONANCE ANTIBARYON
MESON RESONANCE ANTIHYPERON
MESON RESONANCE ANTILAMBDA
MESON RESONANCE ANTINUCLEON
MESON RESONANCE ANTISIGMA
MESON RESONANCE ANTIXI
MESON RESONANCE BARYON
MESON RESONANCE BARYON RESONANCE
MESON RESONANCE DEUTERIUM
MESON RESONANCE HYPERON
MESON RESONANCE LAMBDA
MESON RESONANCE LIGHT NUCLEUS
MESON RESONANCE MESON RESONANCE
MESON RESONANCE N
MESON RESONANCE NUCLEON
MESON RESONANCE NUCLEUS
MESON RESONANCE OMEGA-
MESON RESONANCE P
MESON RESONANCE QUARK
MESON RESONANCE SIGMA
MESON RESONANCE SIGMA+
MESON RESONANCE SIGMA-
MESON RESONANCE SIGMAO
MESON RESONANCE VECTOR MESON
MESON RESONANCE XI
MESON RESONANCE XI-
MESON RESONANCE XIO
MESON SIGMA
MESON SIGMA+
MESON SIGMA-
MESON SIGMAO
MESON VECTOR MESON
MESON XI
MESON XI-
MESON XIO
METAL
MICROWAVES
MINERAL
*MISSING-MASS (SPECTROMETER, MISSING-MASS)
-MIXING ('INTERFERENCE' (RESTRICTED USE))
MODEL (WITHOUT SECOND TERM: RESTRICTED USE)
MOLECULAR BIOLOGY
*MOLECULE
MOLYBDENUM
MOMENT
MOMENTUM
MOMENTUM TRANSFER
MONITORING
*MONOCHROMATIC BEAM (PHOTON, MONOCHROMATIC BEAM)
*MONTE CARLO (NUMERICAL CALCULATIONS, MONTE CARLO)
*MOSCOW ITEF PS
*MOSCOW RI PS
*MUELLER ('MODEL, MUELLER')
*MULTI-REGGE (REGGE POLES, MULTI-REGGE)
-MULTILOOP ('MODEL, DUAL RESONANCE' OR 'DUALITY, FIELD THEORY')
*MULTIPERIPHERAL (MODEL, MULTIPERIPHERAL)
*MULTIPHOTON (EXCHANGE, MULTIPHOTON + PERTURBATION THEORY)
*MULTIPION (EXCHANGE, MULTIPION)
MULTIPLE
MULTIPLE PRODUCTION
MULTIPLE SCATTERING
MULTIPLET
-MULTIPLICITY ('MULTIPLE PRODUCTION')
*MULTIPOLE ('PARTIAL-WAVE ANALYSIS, MULTIPOLE')
MUON
MUON ANTI-K
MUON ANTI-N
MUON ANTI-P
MUON ANTIBARYON
MUON ANTIHYPERON
MUON ANTILAMBDA
MUON ANTINUCLEON
MUON ANTISIGMA
MUON ANTIXI
MUON BARYON
MUON BARYON RESONANCE
MUON BOSON
MUON DEUTERIUM
MUON HADRON
MUON HYPERON
MUON INTERMEDIATE BOSON
MUON K
MUON K+
MUON K-
MUON KO
MUON LAMBDA
MUON LIGHT NUCLEUS
MUON MESON
MUON MESON RESONANCE
MUON MUON
MUON MUON+
MUON MUON-
MUON N
-MUON NEUTRINO (NEUTRINO, MUON)
MUON NUCLEON
MUON NUCLEUS
MUON OMEGA-
MUON P
MUON PI
MUON PI+
MUON PI-
MUON PIO
MUON QUARK
MUON SIGMA
MUON SIGMA+
MUON SIGMA-
MUON SIGMAO
MUON VECTOR MESON
MUON XI
MUON XI-
MUON XIO
MUON+
MUON+ ANTI-K
MUON+ ANTI-N
MUON+ ANTI-P

MUON+ ANTIBARYON
MUON+ ANTIHYPERON
MUON+ ANTILAMBDA
MUON+ ANTINUCLEON
MUON+ ANTISIGMA
MUON+ ANTIXI
MUON+ BARYON
MUON+ BARYON RESONANCE
MUON+ BOSON
MUON+ DEUTERIUM
MUON+ HADRON
MUON+ HYPERON
MUON+ INTERMEDIATE BOSON
MUON+ K
MUON+ K+
MUON+ K-
MUON+ KO
MUON+ LAMBDA
MUON+ LIGHT NUCLEUS
MUON+ MESON
MUON+ MESON RESONANCE
MUON+ MUON+
MUON+ MUON-
MUON+ N
MUON+ NUCLEON
MUON+ NUCLEUS
MUON+ OMEGA-
MUON+ P
MUON+ PI
MUON+ PI+
MUON+ PI-
MUON+ PIO
MUON+ QUARK
MUON+ SIGMA
MUON+ SIGMA+
MUON+ SIGMA-
MUON+ SIGMAO
MUON+ VECTOR MESON
MUON+ XI
MUON+ XI-
MUON+ XIO
MUON-
MUON- ANTI-K
MUON- ANTI-N
MUON- ANTI-P
MUON- ANTIBARYON
MUON- ANTIHYPERON
MUON- ANTILAMBDA
MUON- ANTINUCLEON
MUON- ANTISIGMA
MUON- ANTIXI
MUON- BARYON
MUON- BARYON RESONANCE
MUON- BOSON
MUON- DEUTERIUM
MUON- HADRON
MUON- HYPERON
MUON- INTERMEDIATE BOSON
MUON- K
MUON- K+
MUON- K-
MUON- KO
MUON- LAMBDA
MUON- LIGHT NUCLEUS
MUON- MESON
MUON- MESON RESONANCE
MUON- MUON-
MUON- N
MUON- NUCLEON
MUON- NUCLEUS
MUON- OMEGA-
MUON- P
MUON- PI
MUON- PI+
MUON- PI-
MUON- PIO
MUON- QUARK
MUON- SIGMA
MUON- SIGMA+
MUON- SIGMA-
MUON- SIGMAO
MUON- VECTOR MESON
MUON- XI
MUON- XI-
MUON- XIO
-MUONIC ATOM ('MUON, ATOM')
-MUONIUM (ELECTRON MUON, ATOM)

N
N ANTI-N
N ANTIHYPERON
N ANTILAMBDA
N ANTISIGMA
N ANTIXI
N BARYON RESONANCE
N DEUTERIUM
N HYPERON
N INTERMEDIATE BOSON
N LAMBDA
N LIGHT NUCLEUS
N N
N NUCLEUS
N OMEGA-
N QUARK
N SIGMA
N SIGMA+
N SIGMA-
N SIGMA0
N VECTOR MESON
N XI
N XI-
N XI0
N(1670)
N(1688)
N(1860)
N(2190)
N(2220)
N(2650)
N(3030)
-N-PION EXCHANGE (EXCHANGE, MULTIPION)
*N-POINT FUNCTION ('DUALITY, N-POINT FUNCTION' OR 'VENEZIANO MODEL, N-POINT FUNCTION' OR 'MODEL, N-POINT FUNCTION' OR 'MANY-BODY PROBLEM')
-N/D METHOD (PARTIAL WAVE, DISPERSION RELATIONS)
N*(1470)
N*(1520)
N*(1535)
N**(1700)
N**(1780)
-NAMBU (MODEL, FIELD THEORY)
-NANOSECOND ELECTRONICS (FAST LOGIC)
*NARROW RESONANCE ('APPROXIMATION, NARROW RESONANCE')
NEODYMIUM
NEON
NEPTUNIUM
*NEUTRALS (IN REACTIONS ONLY)
-NEUTRETTO (NEUTRINO, MUON)
NEUTRINO
NEUTRINO ANTI-K
NEUTRINO ANTI-N
NEUTRINO ANTI-P
NEUTRINO ANTIBARYON
NEUTRINO ANTIHYPERON
NEUTRINO ANTILAMBDA
NEUTRINO ANTINEUTRINO
NEUTRINO ANTINUCLEON
NEUTRINO ANTISIGMA
NEUTRINO ANTIXI
NEUTRINO BARYON
NEUTRINO BARYON RESONANCE
NEUTRINO BOSON
NEUTRINO DEUTERIUM
NEUTRINO ELECTRON
NEUTRINO HADRON
NEUTRINO HYPERON
NEUTRINO INTERMEDIATE BOSON
NEUTRINO K
NEUTRINO K+
NEUTRINO K-
NEUTRINO K0
NEUTRINO LAMBDA
NEUTRINO LIGHT NUCLEUS
NEUTRINO MESON
NEUTRINO MESON RESONANCE
NEUTRINO MUON
NEUTRINO MUON+
NEUTRINO MUON-
NEUTRINO N
NEUTRINO NEUTRINO
NEUTRINO NUCLEON
NEUTRINO NUCLEUS
NEUTRINO OMEGA-
NEUTRINO P
NEUTRINO PI
NEUTRINO PI+
NEUTRINO PI-
NEUTRINO PI0
NEUTRINO POSITRON
NEUTRINO QUARK
NEUTRINO SIGMA
NEUTRINO SIGMA+
NEUTRINO SIGMA-
NEUTRINO SIGMA0
NEUTRINO VECTOR MESON
NEUTRINO XI
NEUTRINO XI-
NEUTRINO XI0
NEUTRON DETECTION
-NEVEU-SCHWARZ MODEL ('MODEL, DUAL RESONANCE')
*NEW ELEMENT ('ELEMENT, NEW ELEMENT')
NEW PARTICLE
NICKEL
*NIMROD PS (AT CHILTON)
*NINA ES (AT DARESBURY)
NIOBIUM
NITROGEN
NOBELIUM
-NOETHER'S THEOREM ('GROUP THEORY' AND 'CONSERVATION LAW')
*NONLEPTONIC DECAY
-NONPOLYNOMIAL LAGRANGIANS (FIELD THEORY + RENORMALIZATION)
NONRELATIVISTIC
*NONSTRANGE ('RESONANCE, NONSTRANGE' OR 'BARYON RESONANCE, NONSTRANGE')
-NOVA MODEL ('MODEL, MULTIPLE PRODUCTION')
*NOVOSIBIRSK NAP STOR
*NOVOSIBIRSK STOR3
*NOVOSIBIRSK STOR4
NUCLEAR EMULSION
NUCLEAR ENGINEERING
NUCLEAR FORCE
NUCLEAR MODEL
NUCLEAR PHYSICS
NUCLEAR PROPERTIES
NUCLEAR RADIATION
NUCLEAR REACTION
NUCLEON
NUCLEON ANTI-N
NUCLEON ANTI-P
NUCLEON ANTIHYPERON
NUCLEON ANTILAMBDA
NUCLEON ANTINUCLEON
NUCLEON ANTISIGMA
NUCLEON ANTIXI
NUCLEON BARYON RESONANCE
NUCLEON DEUTERIUM
NUCLEON HYPERON
NUCLEON INTERMEDIATE BOSON
NUCLEON LAMBDA
NUCLEON LIGHT NUCLEUS
NUCLEON N
NUCLEON NUCLEON
NUCLEON NUCLEUS
NUCLEON OMEGA-
NUCLEON P
NUCLEON QUARK
NUCLEON RESONANCE ('BARYON RESONANCE, NONSTRANGE')
NUCLEON SIGMA
NUCLEON SIGMA+
NUCLEON SIGMA-
NUCLEON SIGMA0
NUCLEON VECTOR MESON
NUCLEON XI
NUCLEON XI-
NUCLEON XI0
NUCLEUS
NUCLEUS INTERMEDIATE BOSON
NUCLEUS NUCLEUS
NUCLEUS QUARK
NUCLIDE
NUMERICAL CALCULATIONS
NUMERICAL MATHEMATICS

*O(3,1) (SYMMETRY, O(3,1))
*O(4) (SYMMETRY, O(4))
*OAKES (MODEL, OAKES)
-OBEC (EXCHANGE, ONE-BOSON)
*OCTET DOMINANCE (MODEL, OCTET DOMINANCE)
-ODDNESS (QUANTUM NUMBER, ODDNESS)
-OFF-MASS-SHELL (MODEL, OFF-SHELL)
*OFF-SHELL (MODEL, OFF-SHELL)
OMEGA(784)
*OMEGA(784)-PHI(1019) (INTERFERENCE, OMEGA(784)-PHI(1019))
OMEGA-
OMEGA- BARYON RESONANCE
OMEGA- DEUTERIUM
OMEGA- INTERMEDIATE BOSON
OMEGA- LIGHT NUCLEUS
OMEGA- NUCLEUS
OMEGA- OMEGA-
OMEGA- QUARK
OMEGA- VECTOR MESON
-OMEGA-PHI INTERFERENCE (INTERFERENCE, OMEGA(784)-PHI(1019))
-OMEGA-RHO INTERFERENCE (INTERFERENCE, RHO(765)-OMEGA(784))
*OMNES (MODEL, OMNES)
*ON-LINE ('COMPUTER, ON-LINE' (NOT FOR PAPERS CONTAINING EXPERIMENTAL RESULTS, EXCEPT WHEN PARTICULARS ARE GIVEN))
-ON-MASS-SHELL ('MODEL, ON-SHELL')
*ON-SHELL (MODEL, ON-SHELL)
*ONE-BOSON (EXCHANGE, ONE-BOSON)
*ONE-MESON (EXCHANGE, ONE-MESON)
*ONE-PARTICLE (EXCHANGE, ONE-PARTICLE)
*ONE-PHOTON (EXCHANGE, ONE-PHOTON)
*ONE-PION (EXCHANGE, ONE-PION)
*ONE-VECTOR MESON (EXCHANGE, ONE-VECTOR MESON)
-OPE (EXCHANGE, ONE-PION)
-OPE MODEL (EXCHANGE, ONE-PION)
*OPERATOR ALGEBRA ('FIELD THEORY, OPERATOR ALGEBRA')
*OPERATOR PRODUCT ('FIELD THEORY, OPERATOR PRODUCT')
-OPERATOR PRODUCT EXPANSION ('FIELD THEORY, OPERATOR PRODUCT')
*OPTICAL (MODEL, OPTICAL)
-OPTICAL THEOREM (UNITARITY, TOTAL CROSS SECTION)
OPTICS
ORBIT
ORGANIC COMPOUNDS
*ORSAY LINAC
*ORSAY STOR
*OSCILLATOR (MODEL, OSCILLATOR)
OSMIUM
*OVERLAPPING RESONANCES (MODEL, OVERLAPPING RESONANCES)
OXYGEN

P

P
P ANTI-N
P ANTIHYPERON
P ANTILAMBDA
P ANTISIGMA
P ANTIXI
P BARYON RESONANCE
P DEUTERIUM
P HYPERON
P INTERMEDIATE BOSON
P LAMBDA
P LIGHT NUCLEUS
P N
P NUCLEUS
P OMEGA-
P P
P QUARK
P SIGMA
P SIGMA+
P SIGMA-
P SIGMA0
P VECTOR MESON
P XI
P XI-
P XI0
-P-WAVE (PARTIAL WAVE)
*PADE (APPROXIMATION, PADE)
PAIR
PAIR PRODUCTION
PALLADIUM
*PARAMETRIZATION (INTERPRETATION OF EXPERIMENTS, PARAMETRIZATION (ONLY FOR FUNCTIONAL FITS))
*PARASTATISTICS (STATISTICS, PARASTATISTICS)
PARITY
-PARITY CHECK (DIGITAL LOGIC)
PARTIAL WAVE
PARTIAL-WAVE ANALYSIS
-PARTIALLY CONSERVED AXIAL-VECTOR CURRENT (MODEL, PCAC)
-PARTIALLY CONSERVED VECTOR CURRENT (MODEL, PCVC)
PARTICLE
-PARTICLE MODELS ('MODEL, PARTICLE' (RESTRICTED USE) OR 'MODEL, FERMION' OR 'MODEL, BARYON' OR 'MODEL, BOSON' OR 'MODEL, MESON' OR 'MODEL, PHOTON')
PARTICLE SOURCE
-PARTICLE-HOLE MODEL (NUCLEAR PROPERTIES)
*PARTON ('MODEL, PARTON' OR 'POSTULATED PARTICLE, PARTON')
*PCAC (MODEL, PCAC)
*PCVC (MODEL, PCVC)
*PERIPHERAL (MODEL, PERIPHERAL)
PERTURBATION THEORY
-PEYROU PLOT (KINEMATICS)
-PHASE SHIFT (PARTIAL WAVE)
-PHASE SPACE ('KINEMATICS' FREQUENTLY ALSO 'MODEL, STATISTICAL')
-PHENOMENOLOGY (NOT USED)
PHI(1019)
PHI(1650)
-PHI-TO-THE-NTH MODEL ('MODEL, FIELD THEORY')
PHOSPHORUS
-PHOTOABSORPTION (PHOTON, ABSORPTION)
PHOTOFISSION
-PHOTOMULTIPLIER (GENERALLY NOT INCLUDED. SEE SCINTILLATION COUNTER)
PHOTON (ALSO: 'MODEL, PHOTON')
PHOTON ANTI-K
PHOTON ANTI-N
PHOTON ANTI-P
PHOTON ANTIBARYON
PHOTON ANTIHYPERON
PHOTON ANTILAMBDA
PHOTON ANTINEUTRINO
PHOTON ANTINUCLEON
PHOTON ANTISIGMA
PHOTON ANTIXI
PHOTON BARYON
PHOTON BARYON RESONANCE
PHOTON BOSON
PHOTON DEUTERIUM
PHOTON ELECTRON
-PHOTON EXCHANGE (EXCHANGE, PHOTON)
PHOTON FERMION
PHOTON HADRON
PHOTON HYPERON
PHOTON INTERMEDIATE BOSON
PHOTON K
PHOTON K+
PHOTON K-
PHOTON K0
PHOTON LAMBDA
PHOTON LEPTON
PHOTON LIGHT NUCLEUS
PHOTON MESON
PHOTON MESON RESONANCE
PHOTON MUON
PHOTON MUON+
PHOTON MUON-
PHOTON N
PHOTON NEUTRINO
PHOTON NUCLEON
PHOTON NUCLEUS
PHOTON OMEGA-
PHOTON P
PHOTON PHOTON
PHOTON PI
PHOTON PI+
PHOTON PI-
PHOTON PI0
PHOTON POSITRON
PHOTON QUARK
PHOTON SIGMA
PHOTON SIGMA+
PHOTON SIGMA-
PHOTON SIGMA0
PHOTON VECTOR MESON
PHOTON XI
PHOTON XI-
PHOTON XI0
PHOTOPRODUCTION
PI
PI ANTI-K
PI ANTI-N
PI ANTI-P
PI ANTIBARYON
PI ANTIHYPERON
PI ANTILAMBDA
PI ANTINUCLEON
PI ANTISIGMA
PI ANTIXI
PI BARYON
PI BARYON RESONANCE
PI DEUTERIUM
PI HYPERON
PI INTERMEDIATE BOSON
PI K
PI K+
PI K-
PI K0
PI LAMBDA
PI LIGHT NUCLEUS
PI MESON RESONANCE
PI N
PI NUCLEON
PI NUCLEUS
PI OMEGA-
PI P
PI PI
PI PI+
PI PI-
PI PI0
PI QUARK
PI SIGMA
PI SIGMA+
PI SIGMA-
PI SIGMA0
PI VECTOR MESON
PI XI
PI XI-
PI XI0
PI(1016)
PI(1640)
PI(975)
PI+
PI+ ANTI-K
PI+ ANTI-N
PI+ ANTI-P
PI+ ANTIBARYON
PI+ ANTIHYPERON
PI+ ANTILAMBDA
PI+ ANTINUCLEON
PI+ ANTISIGMA
PI+ ANTIXI
PI+ BARYON
PI+ BARYON RESONANCE
PI+ DEUTERIUM
PI+ HYPERON
PI+ INTERMEDIATE BOSON
PI+ K
PI+ K+
PI+ K-
PI+ K0
PI+ LAMBDA
PI+ LIGHT NUCLEUS

PI+ MESON RESONANCE
PI+ N
PI+ NUCLEON
PI+ NUCLEUS
PI+ OMEGA-
PI+ P
PI+ PI+
PI+ PI-
PI+ QUARK
PI+ SIGMA
PI+ SIGMA+
PI+ SIGMA-
PI+ SIGMA0
PI+ VECTOR MESON
PI+ XI
PI+ XI-
PI+ XI0
PI-
PI- ANTI-K
PI- ANTI-N
PI- ANTI-P
PI- ANTIBARYON
PI- ANTIHYPERON
PI- ANTILAMBDA
PI- ANTINUCLEON
PI- ANTISIGMA
PI- ANTIXI
PI- BARYON
PI- BARYON RESONANCE
PI- DEUTERIUM
PI- HYPERON
PI- INTERMEDIATE BOSON
PI- K
PI- K+
PI- K-
PI- K0
PI- LAMBDA
PI- LIGHT NUCLEUS
PI- MESON RESONANCE
PI- N
PI- NUCLEON
PI- NUCLEUS
PI- OMEGA-
PI- P
PI- PI-
PI- QUARK
PI- SIGMA
PI- SIGMA+
PI- SIGMA-
PI- SIGMA0
PI- VECTOR MESON
PI- XI
PI- XI-
PI- XI0
PI/RHO(1540)
-PION EXCHANGE ('EXCHANGE, ONE-PION' OR 'EXCHANGE, MULTIPION')
*PIONIZATION ('MULTIPLE PRODUCTION, PIONIZATION')
PI0
PI0 ANTI-K
PI0 ANTI-N
PI0 ANTI-P
PI0 ANTIBARYON
PI0 ANTIHYPERON
PI0 ANTILAMBDA
PI0 ANTINUCLEON
PI0 ANTISIGMA
PI0 ANTIXI
PI0 BARYON
PI0 BARYON RESONANCE
PI0 DEUTERIUM
PI0 HYPERON
PI0 INTERMEDIATE BOSON
PI0 K
PI0 K+
PI0 K-
PI0 K0
PI0 LAMBDA
PI0 LIGHT NUCLEUS
PI0 MESON RESONANCE
PI0 N
PI0 NUCLEON
PI0 NUCLEUS
PI0 OMEGA-
PI0 P
PI0 PI+
PI0 PI-
PI0 PI0
PI0 QUARK
PI0 SIGMA
PI0 SIGMA+
PI0 SIGMA-
PI0 SIGMA0
PI0 VECTOR MESON
PI0 XI
PI0 XI-
PI0 XI0
*PLANAR DIAGRAM (MODEL, PLANAR DIAGRAM)
PLASMA
PLASTICS
PLATINUM
PLUTONIUM
-POINCARE GROUP (GROUP THEORY, LORENTZ)
*POKORSKI-SATZ-SCHILLING (MODEL, POKORSKI-SATZ-SCHILLING)
POLARIZATION
*POLE ('MODEL, POLE' OR 'APPROXIMATION, POLE')
-POLE DOMINANCE ('MODEL, POLE' OR 'MODEL, RESONANCE')
POLONIUM
POMERON (ALSO 'POMERON, MULTI-REGGE')
-POMERON EXCHANGE ('POMERON, EXCHANGE')
*POSITION SENSITIVE ('COUNTERS AND DETECTORS, POSITION SENSITIVE')
-POSITIVITY (ANALYTIC PROPERTIES?)
POSITRON
POSITRON ANTI-K
POSITRON ANTI-N
POSITRON ANTI-P
POSITRON ANTIBARYON
POSITRON ANTIHYPERON
POSITRON ANTILAMBDA
POSITRON ANTINUCLEON
POSITRON ANTISIGMA
POSITRON ANTIXI
POSITRON BARYON
POSITRON BARYON RESONANCE
POSITRON BOSON
POSITRON DEUTERIUM
POSITRON HADRON
POSITRON HYPERON
POSITRON INTERMEDIATE BOSON
POSITRON K
POSITRON K+
POSITRON K-
POSITRON K0
POSITRON LAMBDA
POSITRON LIGHT NUCLEUS
POSITRON MESON
POSITRON MESON RESONANCE
POSITRON MUON
POSITRON MUON+
POSITRON MUON-
POSITRON N
POSITRON NUCLEON
POSITRON NUCLEUS
POSITRON OMEGA-
POSITRON P
POSITRON PI
POSITRON PI+
POSITRON PI-
POSITRON PI0
POSITRON POSITRON
POSITRON QUARK
POSITRON SIGMA
POSITRON SIGMA+
POSITRON SIGMA-
POSITRON SIGMA0
POSITRON VECTOR MESON
POSITRON XI
POSITRON XI-
POSITRON XI0
-POSITRONIUM ('ELECTRON POSITRON, ATOM')
POSTULATED PARTICLE
POTASSIUM
POTENTIAL
-POTENTIAL MODEL (POTENTIAL SCATTERING)
POTENTIAL SCATTERING
POWER ENGINEERING
POWER SUPPLY
PRASEODYMIUM
*PRIMAKOFF (EFFECT, PRIMAKOFF)
-PRIMEVAL FIREBALL (ASTROPHYSICS)
*PRINCETON PS
-PRISMA PLOT (KINEMATICS OR 'EXPERIMENTAL METHODS IN REVIEWS)
-PROBABILITY ('STATISTICS')
PRODUCTION
-PRODUCTION CROSS SECTION ('PRODUCTION' + (GENERALLY) 'TOTAL CROSS SECTION')
PROGRAMMING
-PROJECT ('PROPOSED EXPERIMENT, EXPERIMENTAL EQUIPMENT')
PROMETHIUM
PROPAGATOR

P

PROPORTIONAL COUNTER
PROPORTIONAL WIRE CHAMBER
PROPOSED EXPERIMENT
PROTACTINIUM
PROTON SYNCHROTRON
*PSEUDOSCALAR (USED ONLY WHEN ESSENTIAL)
*PSEUDOSCALAR MESON DOMINANCE (MODEL, PSEUDOSCALAR MESON DOMINANCE)
*PSEUDOVECTOR (USED ONLY WHEN ESSENTIAL. WHEN 'PSEUDOVECTOR' + 'VECTOR MESON' APPLICABLE, ONLY 'VECTOR MESON' IS USED)
-PULSE ANALYZER (PULSE-HEIGHT ANALYZER)
-PULSE GENERATOR (NOT INCLUDED)
-PULSE LIMITER (FAST LOGIC)
-PULSE SHAPER (FAST LOGIC)
-PULSE SPECTROMETER (MAGNETIC SPECTROMETER + (COINCIDENCE METHOD OR SPARK CHAMBER))
PULSE-HEIGHT ANALYZER
PULSED MAGNET

Q

Q REGION
-QC/2 SPECTROMETER (MAGNETIC SPECTROMETER)
QUADRUPOLE LENS
-QUANTAMETER (IONIZATION CHAMBER + BEAM CALIBRATION)
-QUANTIZATION ('QUANTUM MECHANICS', BUT 'FIELD THEORY' FOR SECOND QUANTIZATION)
QUANTUM ELECTRODYNAMICS
QUANTUM MECHANICS
QUANTUM NUMBER
QUARK
-QUARK ANTIQUARK (QUARK QUARK)
QUARK INTERMEDIATE BOSON
-QUARK MODEL (QUARK)
QUARK QUARK
-QUARK SEARCH ('QUARK, POSTULATED PARTICLE', WHEN FOUND: 'QUARK, NEW PARTICLE')
*QUARTET (MODEL, QUARTET)
*QUASICLASSICAL (MODEL, QUASICLASSICAL)
-QUASIELASTIC SCATTERING (USE ELASTIC SCATTERING)
*QUASIOPTICAL (MODEL, QUASIOPTICAL)
*QUASIPOTENTIAL (MODEL, QUASIPOTENTIAL)

R

RADIATION
RADIATIVE CORRECTION (FOR ELECTRON SCATTERING ONLY. 'FEYNMAN GRAPH' IS USED IN OTHER CASES)
*RADIATIVE DECAY
RADIOACTIVITY
RADIUM
RADON
-RAPIDITY ('KINEMATICS', RESTRICTED USE IN THIS CONNECTION)
REACTION AMPLITUDE
RECOIL
RED SHIFT ('RELATIVITY THEORY')
*REFLECTION
*REGENERATION ('KO, REGENERATION')
REGGE CUT ('REGGE CUT, MODEL' ONLY FOR PAPERS TREATING MODELS)
REGGE POLES
*RELATIVISTIC
-RELATIVISTIC QUANTUM MECHANICS (QUANTUM MECHANICS, RELATIVISTIC')
*RELATIVISTIC ROTATOR (MODEL, RELATIVISTIC ROTATOR)
RELATIVITY THEORY
RENORMALIZATION
-REPRESENTATION ('GROUP THEORY'?)
-REPRESENTATION THEORY (GROUP THEORY?)
-REPULSION
-RESCATTERING (SEE 'MULTIPLE SCATTERING')
RESONANCE (RESTRICTED USE FOR 'MODEL, RESONANCE')
-RESONANCE INTERACTION MODEL (MODEL, OVERLAPPING RESONANCES)
-RESONANCE MIXING (INTERFERENCE, RESONANCE)
*RESONANCE SCATTERING (MODEL, RESONANCE SCATTERING)
-RESONANCE SPECTROSCOPY ('MULTIPLET' OR 'MASS, SPECTRA')
REVIEW
RF SEPARATOR
RF SYSTEM
RHENIUM
-RHO DOMINANCE MODEL (MODEL, VECTOR DOMINANCE)
-RHO EXCHANGE (EXCHANGE, RHO(765))
RHO(1660)
RHO(1710)
RHO(765)
*RHO(765)-OMEGA(784) (INTERFERENCE, RHO(765)-OMEGA(784))
-RHO-OMEGA (INTERFERENCE, RHO(765)-OMEGA(784))
RHODIUM
-ROPER RESONANCE (N*(1470))
*ROSENBLUTH FORMULA ('EXCHANGE, ONE-PHOTON' +, E.G., 'ELECTRON P, ROSENBLUTH FORMULA')
-ROTATION
-ROTATOR (USE 'MODEL, ROTATOR')
RUBBER
RUBIDIUM
RUTHENIUM

S

S(1930)
-S* MESON RESONANCE (ETA(1070))
S-MATRIX
-S-WAVE ('PARTIAL WAVE')
*SACLAY PS
*SAKATA (MODEL, SAKATA)
SAMARIUM
-SAXON-WOODS ('POTENTIAL' OR 'POTENTIAL SCATTERING')
*SCALAR (USED ONLY WHEN ESSENTIAL)
*SCALAR MESON (EXCHANGE, SCALAR MESON)
*SCALAR MESON DOMINANCE (MODEL, SCALAR MESON DOMINANCE)
-SCALER ('DIGITAL LOGIC')
SCALING (ALSO FOR SCALE INVARIANCE AND SCALING VIOLATION)
SCANDIUM
SCATTERING (RESTRICTED USE)
-SCATTERING AMPLITUDE ('S-MATRIX' IN FIELD THEORY, IN PHENOMENOLOGY DISREGARDED)
-SCATTERING LENGTH ('SCATTERING, LENGTH')
*SCHWINGER TERMS ('CURRENT ALGEBRA, SCHWINGER TERMS')
SCINTILLATION COUNTER
-SCINTILLATOR (NOT INCLUDED IN SCOPE)
-SEARCH (SEE 'POSTULATED PARTICLE')
-SECOND-CLASS CURRENT ('WEAK INTERACTION, CURRENT')
SECONDARY RADIATION
-SECTOR-FOCUSING CYCLOTRON ('ISOCHRONOUS CYCLOTRON')
-SECURITY (SEE 'SHIELDING' OR 'HEALTH PHYSICS')
SELECTION RULE
SELENIUM
-SELF-CONSISTENT CALCULATION ('BOOTSTRAP' OR, IF QUANTUM MECHANICS, 'APPROXIMATION, HARTREE-FOCK')
-SELF-ENERGY ('RENORMALIZATION')
-SELF-INTERACTION ('RENORMALIZATION')
SEMICONDUCTOR
*SEPARABLE POTENTIAL (MODEL, SEPARABLE POTENTIAL)
*SEPARATED-ORBIT (CYCLOTRON, SEPARATED-ORBIT')
*SERPUKHOV PS
-SHADOW SCATTERING ('MODEL, OPTICAL')
*SHELL (MODEL, SHELL)
SHIELDING
-SHORT-RANGE (SEE 'FORCES')
SHOWER COUNTER
SHOWERS
-SHRINKAGE ('HIGH ENERGY BEHAVIOR')
SIGMA
SIGMA ANTISIGMA
SIGMA ANTIXI
SIGMA BARYON RESONANCE
SIGMA DEUTERIUM
SIGMA INTERMEDIATE BOSON
SIGMA LIGHT NUCLEUS
-SIGMA MODEL (SYMMETRY, CHIRAL + FIELD THEORY + MODEL, PCAC)
SIGMA NUCLEUS
SIGMA OMEGA-
SIGMA QUARK
SIGMA SIGMA
SIGMA SIGMA+
SIGMA SIGMA-
SIGMA SIGMAO
SIGMA VECTOR MESON
SIGMA XI
SIGMA XI-
SIGMA XIO
SIGMA(1385)
SIGMA(1765)
SIGMA(1915)
SIGMA(2030)
SIGMA(2250)
SIGMA(2455)
SIGMA(2620)
SIGMA+
SIGMA+ ANTIXI
SIGMA+ BARYON RESONANCE
SIGMA+ DEUTERIUM
SIGMA+ INTERMEDIATE BOSON
SIGMA+ LIGHT NUCLEUS
SIGMA+ NUCLEUS
SIGMA+ OMEGA-
SIGMA+ QUARK
SIGMA+ SIGMA+
SIGMA+ SIGMA-
SIGMA+ SIGMAO
SIGMA+ VECTOR MESON
SIGMA+ XI
SIGMA+ XI-
SIGMA+ XIO
SIGMA-
SIGMA- ANTIXI
SIGMA- BARYON RESONANCE
SIGMA- DEUTERIUM
SIGMA- INTERMEDIATE BOSON
SIGMA- LIGHT NUCLEUS
SIGMA- NUCLEUS
SIGMA- OMEGA-
SIGMA- QUARK
SIGMA- SIGMA-
SIGMA- VECTOR MESON
SIGMA- XI
SIGMA- XI-
SIGMA- XIO
SIGMA'(1670)
SIGMA'(1750)
SIGMAO
SIGMAO ANTIXI
SIGMAO BARYON RESONANCE
SIGMAO DEUTERIUM
SIGMAO INTERMEDIATE BOSON
SIGMAO LIGHT NUCLEUS
SIGMAO NUCLEUS
SIGMAO OMEGA-
SIGMAO QUARK
SIGMAO SIGMA-
SIGMAO SIGMAO
SIGMAO VECTOR MESON
SIGMAO XI
SIGMAO XI-
SIGMAO XIO
SILICON
SILVER
*SIN CYCL ZUERICH
-SINGLE LOOP ('MODEL, DUAL RESONANCE' OR 'DUALITY, FIELD THEORY')
*SL(2,C) (SYMMETRY, SL(2,C))
*SLAC LINAC (AT PALO ALTO)
*SLAC STOR (AT PALO ALTO)
-SMOKATRON (ACCELERATOR, ELECTRON RING)
SODIUM
*SOEDING (MODEL, SOEDING)
-SOFT PHOTON (RADIATIVE CORRECTION)
-SOFT PIONS ('CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS' OR 'MODEL, PCAC')
SOLID-STATE COUNTER
SOLIDS
-SONIC SPARK CHAMBER (SPARK CHAMBER, ACOUSTIC')
-SOURCE ALGEBRA ('CURRENT ALGEBRA')
*SPACE
-SPALLATION (USE 'FISSION')
SPARK CHAMBER
-SPARK COUNTER ('COUNTERS AND DETECTORS')
*SPECIAL FOCUSING (MAGNET, SPECIAL FOCUSING)
*SPECTATOR ('MODEL, SPECTATOR', POSSIBLY ALSO 'MODEL, DEUTERIUM')
SPECTRA
*SPECTRAL FUNCTION ('ANALYTIC PROPERTIES, SPECTRAL FUNCTION')
SPECTROMETER
SPIN
-SPIN FLIP
SPINOR
-SPINOR FIELD THEORY ('FIELD THEORY, SPINOR')
-SPLITTING (SEE 'MASS DIFFERENCE')
-SQUARE-WELL POTENTIAL (POTENTIAL SCATTERING)
*STANFORD LINAC MK3
*STATIC (MODEL, STATIC)
*STATISTICAL (MODEL, STATISTICAL)
-STATISTICAL TENSOR ('SPIN, DENSITY MATRIX')
STATISTICS
STEEL
*STICHEL THEOREM (SELECTION RULE, STICHEL THEOREM)
*STICHEL-SCHOLZ (MODEL, STICHEL-SCHOLZ)
-STOCHASTIC MODEL (MODEL, STATISTICAL)
*STODOLSKY-SAKURAI (MODEL, STODOLSKY-SAKURAI)
STORAGE RING
STRANGE PARTICLE
STRANGENESS
STREAMER CHAMBER
*STRING (MODEL, STRING)
*STRIP (APPROXIMATION, STRIP)
*STRONG ABSORPTION (MODEL, STRONG ABSORPTION)
*STRONG COUPLING (MODEL, STRONG COUPLING)
STRONG INTERACTION (ALSO: 'MODEL, STRONG INTERACTION')
STRONTIUM
-STRUCTURE FUNCTION ('DIFFERENTIAL CROSS SECTION', OCCURS WITH 'INCLUSIVE REACTION' OR 'DEEP INELASTIC SCATTERING')
*SU(N) (SYMMETRY, SU(N))
*SU(2) (SYMMETRY, SU(2))

*SU(2) X SU(2) (SYMMETRY, SU(2) X SU(2))
*SU(2)W (SYMMETRY, SU(2)W)
*SU(3) (SYMMETRY, SU(3))
*SU(3) X SU(3) (SYMMETRY, SU(3) X SU(3))
*SU(6) (SYMMETRY, SU(6))
*SU(6)W (SYMMETRY, SU(6)W)
*SUGAWARA (MODEL, SUGAWARA)
SULFUR
SUM RULE
SUPERCONDUCTING ('ACCELERATOR, SUPERCONDUCTING', 'LINEAR ACCELERATOR, SUPERCONDUCTING', 'MAGNET, SUPERCONDUCTING')
*SUPERCONVERGENCE (SUM RULE, SUPERCONVERGENCE)
-SUPERPOSITION ('INTERFERENCE' (RESTRICTED USE))
*SUPERPROPAGATOR (PROPAGATOR, SUPERPROPAGATOR)
-SUPERWEAK INTERACTION (MODEL, INTERACTION)
SYMMETRY
SYNCHRO-CYCLOTRON
-SYNCHROPHASOTRON (SYNCHROTRON OR PROTON SYNCHROTRON OR ELECTRON SYNCHROTRON)
SYNCHROTRON
SYNCHROTRON OSCILLATION

S

-T-MATRIX (S-MATRIX)
-T'HOOFT ('MODEL,WEINBERG')
TABLES
*TACHYON ('POSTULATED PARTICLE, TACHYON')
-TADPOLE (FEYNMAN GRAPH)
*TAGGED BEAM (PHOTON, TAGGED BEAM)
-TALK (FOR CONFERENCE LECTURES AND REVIEWS, 'LECTURES' OR 'REVIEW' WILL BE USED. OTHER CONFERENCE TALKS HAVE ENTRY (TALK) AFTER TITLE.)
TANTALUM
TARGET
-TARGET POLARIZATION ('TARGET, POLARIZATION')
-TCP ('INVARIANCE, CPT' OR 'VIOLATION, CPT')
TECHNETIUM
-TELESCOPE ('COINCIDENCE METHOD')
TELLURIUM
TEMPERATURE
*TENSOR (USED ONLY WHEN ESSENTIAL)
*TENSOR MESON DOMINANCE (MODEL, TENSOR MESON DOMINANCE)
TERBIUM
THALLIUM
THEORY OF ELEMENTARY PARTICLES
*THERMODYNAMICAL (MODEL, THERMODYNAMICAL)
THERMODYNAMICS
THESIS (INCLUDING SOME MASTERS' THESES)
-THIRRING MODEL ('MODEL, FIELD THEORY')
THORIUM
*THREE-BODY PROBLEM (MANY-BODY PROBLEM, THREE-BODY PROBLEM)
*THREE-MESON (EXCHANGE, THREE-MESON)
*THREE-PHOTON (EXCHANGE, THREE-PHOTON)
*THREE-PION (EXCHANGE, THREE-PION)
-THREE-POINT FUNCTION ('VENEZIANO MODEL, VERTEX FUNCTION' OR 'DUALITY, VERTEX FUNCTION')
THRESHOLD
THULIUM
*TIME MEASUREMENT (SEE ALSO 'TIME-OF-FLIGHT METHOD')
*TIME REVERSAL ('INVARIANCE, TIME REVERSAL' OR 'VIOLATION, TIME REVERSAL')
TIME-OF-FLIGHT METHOD (ELECTRONIC TIME-OF-FLIGHT METHODS: FAST LOGIC)
-TIME-TO-PULSE-HEIGHT CONVERTER (FAST LOGIC)
TIN
TITANIUM
*TOKYO ES
-TOLLER POLE MODEL (PARTIAL WAVE + ANALYTIC PROPERTIES)
*TOMSK ES
-TOPOLOGICAL CROSS SECTION ('TOTAL CROSS SECTION')
-TOTAL ABSORPTION COUNTER ('COUNTERS AND DETECTORS, PHOTON')
TOTAL CROSS SECTION
-TPC (TIME-TO-PULSE-HEIGHT CONVERTER: 'FAST LOGIC')
TRACK DATA ANALYSIS
TRACK MEASURING
TRACK PHOTOGRAPHY
TRACKS
-TRAJECTORY (SEE 'REGGE POLES' OR 'REGGE CUT'. NOT USED FOR PARTICLE TRAJECTORY)
TRANSFORMATION
*TRANSITION (ONLY IN 'RADIATION, TRANSITION')
-TRANSITION RADIATION (RADIATION, TRANSITION)
TRANSMISSION
*TRANSURANIUM ('ELEMENT, TRANSURANIUM')
*TRANSVERSE (RESTRICTED USE)
-TRANSVERSE BEAM OSCILLATION (BETATRON OSCILLATION)
-TREE APPROXIMATION (CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS)
-TREIMAN-YANG TEST (DECAY, ANGULAR DISTRIBUTION)
-TRIANGLE GRAPH ('FEYNMAN GRAPH')
-TRIGGERING ('COINCIDENCE METHOD')
*TRIPLET (MODEL, TRIPLET + QUARK)
TRITIUM
*TRIUMF CYCL (AT VANCOUVER)
-TRUSS GRAPH (APPROXIMATION, LADDER)
TUNGSTEN
*TWO-COMPONENT NEUTRINO (MODEL, TWO-COMPONENT NEUTRINO)
*TWO-PARTICLE (EXCHANGE, TWO-PARTICLE)
*TWO-PHOTON (EXCHANGE, TWO-PHOTON)
*TWO-PION (EXCHANGE, TWO-PION)

T

*U(P,Q) (SYMMETRY, U(P,Q))
*U(12) (SYMMETRY, U(12))
U(2375)
*U(3) X U(3) (SYMMETRY, U(3) X U(3))
*U(6,6) (SYMMETRY, U(6,6))
*U-SPIN (QUANTUM NUMBER, U-SPIN)
-UNIFIED FERMION (MODEL, FERMION)
UNITARITY (RESTRICTED USE)
-UNIVERSAL FERMI INTERACTION (MODEL, WEAK INTERACTION)
*UNIVERSALITY ('ELECTRON MUON, UNIVERSALITY' OR 'WEAK INTERACTION, UNIVERSALITY' OR 'STRONG INTERACTION, UNIVERSALITY' OR 'ELECTROMAGNETIC INTERACTION, UNIVERSALITY')
URANIUM
*URBARYON (MODEL, URBARYON)

U

-V-A THEORY (MODEL, WEAK INTERACTION)
*V-SPIN (QUANTUM NUMBER, V-SPIN)
-VACUUM STATE ('FIELD THEORY')
VACUUM TECHNIQUES
*VALIDITY TEST (RESTRICTED USE TO GENERAL TESTS NOT INTERPRETATIONS, E.G. 'QUANTUM ELECTRODYNAMICS, VALIDITY TEST')
*VAN HOVE (MODEL, VAN HOVE)
VANADIUM
*VARIABLE MASS (MODEL, VARIABLE MASS)
-VARIABLE-ENERGY CYCLOTRON (CYCLOTRON)
*VECTOR (USED ONLY WHEN ESSENTIAL)
-VECTOR BOSON (SEE 'INTERMEDIATE BOSON' OR 'VECTOR MESON')
-VECTOR CURRENT (SEE 'CONSERVED VECTOR CURRENT' OR 'CONSERVED A-V CURRENT' OR 'PCAC' OR 'PCVC')
*VECTOR DOMINANCE (MODEL, VECTOR DOMINANCE)

V

VECTOR MESON
VECTOR MESON BARYON RESONANCE
VECTOR MESON DEUTERIUM
-VECTOR MESON EXCHANGE (EXCHANGE, VECTOR MESON)
VECTOR MESON INTERMEDIATE BOSON
VECTOR MESON LIGHT NUCLEUS
VECTOR MESON NUCLEUS
VECTOR MESON QUARK
VECTOR MESON VECTOR MESON
-VECTOR-AXIAL-VECTOR THEORY (WEAK INTERACTION)
-VELOCITY SPECTROMETER (TIME-OF-FLIGHT METHOD)
VENEZIANO MODEL
VERTEX FUNCTION (RESTRICTED USE, GENERALLY ONLY IN COMBINATIONS WITH PARTICLES)
VIOLATION
*VIRASORO (MODEL, VIRASORO)
-VIRTUAL (SEE ANY KIND OF ELECTRON INTERACTIONS)

-WALECKA MODEL (NUCLEAR PROPERTIES)
*WANG (MODEL, WANG)
-WARD IDENTITY ('PERTURBATION THEORY' AND 'RENORMALIZATION')
WATER
-WAVE EQUATION (QUANTUM MECHANICS)
-WAVE FUNCTION (QUANTUM MECHANICS)
-WAVE PACKET (QUANTUM MECHANICS)
*WEAK ABSORPTION (MODEL, WEAK ABSORPTION)
WEAK INTERACTION (ALSO: 'MODEL, WEAK INTERACTION')
*WEINBERG ('MODEL, WEINBERG')

W

-WEINBERG THEORY (PERTURBATION THEORY?)
*WICK-CUTKOSKY (MODEL, WICK-CUTKOSKY)
*WIDE-ANGLE ('SPECTROMETER, WIDE-ANGLE' OR, E.G., 'PRODUCTION, WIDE-ANGLE')
*WIDE-GAP (SPARK CHAMBER, WIDE-GAP)
*WIDTH
*WIGNER-WEISSKOPF (MODEL, WIGNER-WEISSKOPF)
*WIRE (SPARK CHAMBER, WIRE)
-WOLF METHOD (CORRECTION, OFF-SHELL)
-WOODS-SAXON ('POTENTIAL' OR 'POTENTIAL SCATTERING')
*WU-YANG (MODEL, WU-YANG)

XENON
XI
XI ANTIXI
XI BARYON RESONANCE
XI DEUTERIUM
XI INTERMEDIATE BOSON
XI LIGHT NUCLEUS
XI NUCLEUS
XI OMEGA-
XI QUARK
XI VECTOR MESON
XI XI
XI XI-
XI XIO
XI(1530)
XI(1820)
XI(1940)
XI-
XI- BARYON RESONANCE
XI- DEUTERIUM

X

XI- INTERMEDIATE BOSON
XI- LIGHT NUCLEUS
XI- NUCLEUS
XI- OMEGA-
XI- QUARK
XI- VECTOR MESON
XI- XI-
XIO
XIO BARYON RESONANCE
XIO DEUTERIUM
XIO INTERMEDIATE BOSON
XIO LIGHT NUCLEUS
XIO NUCLEUS
XIO OMEGA-
XIO QUARK
XIO VECTOR MESON
XIO XI-
XIO XIO
-XO MESON RESONANCE (ETA'(958))

*YANG (MODEL, YANG)
-YANG-MILLS (MODEL, FIELD THEORY)
*YIELD (IN COMBINATION WITH PARTICLES, ONLY WHERE YIELD IS GIVEN WITHOUT CROSS SECTIONS)

Y

YTTERBIUM
YTTRIUM
*YUKAWA (POTENTIAL, YUKAWA)

-ZACHARIASEN MODEL (MODEL, FIELD THEORY)
-ZGS ACCELERATOR (PROTON SYNCHROTRON)
ZINC

Z

-ZINN-JUSTIN ('MODEL, WEINBERG')
ZIRCONIUM