Interner Bericht
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The DESY Keyword Thesaurus 1972

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 (singly) and MODEL, FIELD THEORY (coupled)). While the first term is generally a regular keyword, the second term can be a keyword or a non-keyword.

Non-keywords 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 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. Reactions

Reactions are usually represented by an entry for the initial state (Example: ELECTRON P, INTERACTION) and a number of entries for the final-state particles (example: P, FINAL STATE; PI+, FINAL STATE; PI-, FINAL STATE; ELECTRON, FINAL STATE). For the initial-state combination see also (3).

6. Resonances

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

7. 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.

8. Energy Range

Where the other keywords do not reflect the energy range considered, one or several intervals of the kinetic energy of the incoming particle are indicated by keywords. The four intervals chosen are

threshold energy region:	ENERGY RANGE 0.1 GeV AND BELOW
resonance region:	ENERGY RANGE 0.1 TO 2 GeV
intermediate energy region:	ENERGY RANGE 2 TO 5 GeV
high-energy region:	ENERGY RANGE 5 GeV AND ABOVE.

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

A

*A-PARITY (QUANTUM NUMBER, A-PARITY)
ABERRATION
*ABFST (MODEL, ABFST)
ABSORPTION
-ABSORPTION MODEL (MODEL, ABSORPTION)
*ABSORPTIVE (CORRECTION, ABSORPTIVE)
-ABSORPTIVE MODEL (MODEL, ABSORPTION)
*ABSORPTIVE PERIPHERAL (MODEL, ABSORPTIVE PERIPHERAL)
-ABSTRACT ONLY (THE TERM (ABSTRACT ONLY) IS NO KEYWORD BUT APPEARS BEHIND THE TITLE. IT SHOWS THAT ONLY AN ABSTRACT HAS BEEN AVAILABLE)
ACCELERATOR
*ACOUSTIC (SPARK CHAMBER, ACOUSTIC)
ACTINIUM
ACTIVITY REPORT
-ADC (PULSE-HEIGHT ANALYZER)
-ADEMOLLO-GATTO THEOREM (SYMMETRY, BROKEN)
-ADLER (MODEL, PCAC + CURRENT ALGEBRA)
-ADLER CONDITION (MODEL, PCAC + CURRENT ALGEBRA)
-ADLER-DASHEN-GELL-MANN-FUBINI SUM RULE (CURRENT ALGEBRA AND SUM RULE)
-ADLER-WEISBERGER RELATION (MODEL, PCAC + CURRENT ALGEBRA)
-AGS ACCELERATOR (PROTON SYNCHROTRON)
*AIR (SHOWERS, AIR)
ALIGNMENT
ALLOY
ALUMINUM
*AMADO (MODEL, AMADO)
*AMATI-FUBINI-STANGHELLINI (MODEL, AMATI-FUBINI-STANGHELLINI + MODEL, MULTIPERIPHERAL)
AMERICIUM
-AMPLIFIER (ANALOG CIRCUIT)
ANALOG CIRCUIT
-ANALOG-DIGITAL CONVERTER (PULSE-HEIGHT ANALYZER)
ANALYTIC PROPERTIES
-ANALYTICITY (ANALYTIC PROPERTIES)
ANGULAR CORRELATION
ANGULAR DISTRIBUTION
ANGULAR MOMENTUM
-ANHARMONIC OSCILLATOR (MODEL, OSCILLATOR)
ANNIHILATION
ANTI-K
ANTI-K ANTI-K
ANTI-K ANTI-N
ANTI-K ANTI-P
ANTI-K ANTIBARYON
ANTI-K ANTIHYPERON
ANTI-K ANTILAMBDA
ANTI-K ANTINUCLEON
ANTI-K ANTISIGMA
ANTI-K ANTIXI
ANTI-K BARYON
ANTI-K BARYON RESONANCE
ANTI-K DEUTERIUM
ANTI-K HYPERON
ANTI-K INTERMEDIATE BOSON
ANTI-K K+
ANTI-K K-
ANTI-K KO
ANTI-K LAMBDA
ANTI-K LIGHT NUCLEUS
ANTI-K MESON RESONANCE
ANTI-K N
ANTI-K NUCLEON
ANTI-K NUCLEUS
ANTI-K OMEGA-
ANTI-K P
ANTI-K QUARK
ANTI-K SIGMA
ANTI-K SIGMA+
ANTI-K SIGMA-
ANTI-K SIGMAO
ANTI-K VECTOR MESON
ANTI-K XI
ANTI-K XI-
ANTI-K XIO
ANTI-N
ANTI-N ANTI-N
ANTI-N ANTIHYPERON
ANTI-N ANTILAMBDA
ANTI-N ANTISIGMA
ANTI-N ANTIXI
ANTI-N BARYON RESONANCE
ANTI-N DEUTERIUM
ANTI-N HYPERON
ANTI-N INTERMEDIATE BOSON
ANTI-N LAMBDA
ANTI-N LIGHT NUCLEUS
ANTI-N NUCLEUS
ANTI-N OMEGA-
ANTI-N QUARK
ANTI-N SIGMA
ANTI-N SIGMA+
ANTI-N SIGMA-
ANTI-N SIGMAO
ANTI-N VECTOR MESON
ANTI-N XI
ANTI-N XI-
ANTI-N XIO
ANTI-P
ANTI-P ANTI-N
ANTI-P ANTI-P
ANTI-P ANTIHYPERON
ANTI-P ANTILAMBDA
ANTI-P ANTISIGMA
ANTI-P ANTIXI
ANTI-P BARYON RESONANCE
ANTI-P DEUTERIUM
ANTI-P HYPERON
ANTI-P INTERMEDIATE BOSON
ANTI-P LAMBDA
ANTI-P LIGHT NUCLEUS
ANTI-P N
ANTI-P NUCLEUS
ANTI-P OMEGA-
ANTI-P P
ANTI-P QUARK
ANTI-P SIGMA
ANTI-P SIGMA+
ANTI-P SIGMA-
ANTI-P SIGMAO
ANTI-P VECTOR MESON
ANTI-P XI
ANTI-P XI-
ANTI-P XIO
ANTIBARYON
ANTIBARYON ANTI-N
ANTIBARYON ANTI-P
ANTIBARYON ANTIBARYON
ANTIBARYON ANTIHYPERON
ANTIBARYON ANTILAMBDA
ANTIBARYON ANTINUCLEON
ANTIBARYON ANTISIGMA
ANTIBARYON ANTIXI
ANTIBARYON BARYON RESONANCE
ANTIBARYON DEUTERIUM
ANTIBARYON HYPERON
ANTIBARYON INTERMEDIATE BOSON
ANTIBARYON LAMBDA
ANTIBARYON LIGHT NUCLEUS
ANTIBARYON N
ANTIBARYON NUCLEON
ANTIBARYON NUCLEUS
ANTIBARYON OMEGA-
ANTIBARYON P
ANTIBARYON QUARK
ANTIBARYON SIGMA
ANTIBARYON SIGMA+
ANTIBARYON SIGMA-
ANTIBARYON SIGMAO
ANTIBARYON VECTOR MESON
ANTIBARYON XI
ANTIBARYON XI-
ANTIBARYON XIO
ANTIHYPERON
ANTIHYPERON ANTIHYPERON
ANTIHYPERON ANTILAMBDA
ANTIHYPERON ANTISIGMA
ANTIHYPERON ANTIXI
ANTIHYPERON BARYON RESONANCE
ANTIHYPERON DEUTERIUM
ANTIHYPERON INTERMEDIATE BOSON
ANTIHYPERON LAMBDA
ANTIHYPERON LIGHT NUCLEUS
ANTIHYPERON NUCLEUS
ANTIHYPERON OMEGA-
ANTIHYPERON QUARK
ANTIHYPERON SIGMA
ANTIHYPERON SIGMA+
ANTIHYPERON SIGMA-
ANTIHYPERON SIGMAO
ANTIHYPERON VECTOR MESON
ANTIHYPERON XI
ANTIHYPERON XI-
ANTIHYPERON XIO
ANTILAMBDA
ANTILAMBDA ANTILAMBDA
ANTILAMBDA ANTISIGMA
ANTILAMBDA ANTIXI
ANTILAMBDA BARYON RESONANCE
ANTILAMBDA DEUTERIUM
ANTILAMBDA INTERMEDIATE BOSON
ANTILAMBDA LIGHT NUCLEUS
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
APPROXIMATION
-ARGAND DIAGRAM (PARTIAL-WAVE ANALYSIS + (POSSIBLY) ('MESON RESONANCE' OR 'BARYON RESONANCE'))
ARGON
ARSENIC
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 OMEGA-
BARYON P
-BARYON POLE MODEL (EXCHANGE, BARYON)
BARYON QUARK
BARYON RESONANCE
BARYON RESONANCE BARYON RESONANCE
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
BEAM
BEAM CALIBRATION
BEAM EMITTANCE
BEAM HARDENER
BEAM MONITORING
BEAM OPTICS
BEAM OSCILLATION
BEAM TRANSPORT
*BELL-STEINBERGER (MODEL, BELL-STEINBERGER)
BENDING MAGNET
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 FIELD EXCHANGE (MODEL, FIELD THEORY)
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)
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)
*BREIT-WIGNER (MODEL, BREIT-WIGNER)
BREMSSTRAHLUNG (ALSO 'MODEL, BREMSSTRAHLUNG')
*BROKEN ('SYMMETRY, BROKEN' EXAMPLE: 'SYMMETRY, SU(3)' + 'SYMMETRY, BROKEN')
BROMINE
*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-TREIMAN RELATION (CURRENT ALGEBRA + MESON, LEPTONIC DECAY)
-CALORIMETER (BEAM CALIBRATION?)
*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
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)
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)
CONTROL SYSTEM
COPPER
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
CURRENT ALGEBRA
-CURRENT COMMUTATOR RELATIONS (CURRENT ALGEBRA)
-CURRENT COMMUTATORS (CURRENT ALGEBRA)
*CURRENT-CURRENT ('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 COMPILATION
DECAY
-DECAY CROSS SECTION (DECAY)
DECAY MODES
*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)
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 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')
-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)
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)
-DRESSED PARTICLE (MODEL, PARTICLE)
*DROPLET (MODEL, DROPLET)
*DUAL RESONANCE ('MODEL, DUAL RESONANCE')
DUALITY (USUALLY WITHOUT 'REGGE POLES')
*DUERR-PILKUHN (MODEL, DUERR-PILKUHN)
-DYNAMICAL (NOT USED)
DYSPROSIUM

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
-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')

F

*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
*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)
-FFAG (SYNCHROTRON OR CYCLOTRON)
FIELD EQUATIONS
-FIELD THEORETICAL MODEL (MODEL, FIELD THEORY (RESTRICTED USE))
FIELD THEORY
*FINAL STATE
*FINAL STATES
FINAL-STATE INTERACTION
*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 ('MODEL, FRAGMENTATION')
FRANCIUM
*FRIEDMON (MODEL, FRIEDMON)
*FROISSART BOUND (HIGH ENERGY BEHAVIOR, FROISSART BOUND)
*FUBINI (MODEL, FUBINI)
*FUBINI-FURLAN (MODEL, FUBINI-FURLAN)
*FUBINI-GORDON-VENEZIANO (MODEL, FUBINI-GORDON-VENEZIANO)
FUSION
-F1 MESON RESONANCE ('PI/RHO(1540)')

G

-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)
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
*GRAVITON (MODEL, GRAVITON)
-GREEN FUNCTION ('MATHEMATICS' OR 'FIELD THEORY')
-GRIBOV-POMERANCHUK (ANALYTIC PROPERTIES)
GROUP THEORY

H

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)
*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').
-HILBERT SPACE (QUANTUM MECHANICS)
HOLMIUM
*HYDRODYNAMICAL (MODEL, HYDRODYNAMICAL)
HYDROGEN
*HYPERCHARGE ('QUANTUM NUMBER, HYPERCHARGE' OR 'STRANGENESS')
HYPERFINE STRUCTURE
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

I

*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
*INTERACTION (FOR NOVEL INTERACTIONS: 'MODEL, INTERACTION')
INTERFERENCE
INTERMEDIATE BOSON (ALSO 'MODEL, INTERMEDIATE BOSON')
INTERMEDIATE NUCLEUS
*INTERNAL (SYMMETRY, INTERNAL)
*INTERPRETATION OF EXPERIMENTS
*INTRANUCLEAR CASCADE (MODEL, INTRANUCLEAR CASCADE)
INVARIANCE
*INVERSE (SCATTERING, INVERSE)
IODINE
ION
IONIZATION
-IONIZATION CALORIMETER (IONIZATION CHAMBER + BEAM CALIBRATION)
IONIZATION CHAMBER
IRIDIUM
IRON
*ISOBAR (MODEL, ISOBAR)
*ISOCHRONOUS (CYCLOTRON, ISOCHRONOUS)
ISOSPIN

J

*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)

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)
-KHURI REPRESENTATION (REGGE POLES, MODEL)
*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')
*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

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 SIGMA0
LAMBDA VECTOR MESON
LAMBDA XI
LAMBDA XI-
LAMBDA XI0
LAMBDA(1405)
LAMBDA(1815)
LAMBDA(1830)
LAMBDA(2100)
LAMBDA(2350)
LAMBDA*(1520)
LAMBDA*(1670)
LAMBDA*(1690)
-LAMPF (LINEAR ACCELERATOR, P)
LANTHANUM
*LASER (GENERALLY, *OPTICS, LASER*)
LAWRENCIUM
LEAD
LECTURES
-LEE (MODEL, FIELD THEORY)
-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 K0
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 OMEGA-
LEPTON P
LEPTON PI
LEPTON PI+
LEPTON PI-
LEPTON PI0
LEPTON POSITRON
LEPTON QUARK
LEPTON SIGMA
LEPTON SIGMA+
LEPTON SIGMA-
LEPTON SIGMA0
LEPTON VECTOR MESON
LEPTON XI
LEPTON XI-
LEPTON XI0
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)
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)
*LONGITUDINAL (RESTRICTED USE)
-LONGITUDINAL BEAM OSCILLATION (SYNCHROTRON OSCILLATION)
*LORENTZ (*GROUP THEORY, LORENTZ* OR *INVARIANCE, LORENTZ*)
*LOW (MOMENTUM TRANSFER, LOW)
LOW TEMPERATURE
-LSZ FORMALISM (FIELD THEORY)
*LUMINOSITY (STORAGE RING, LUMINOSITY)
LUTETIUM

L

M

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
-MEMORY (FREQUENTLY 'PULSE-HEIGHT ANALYZER')
MENDELEVIUM
MERCURY
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 K0
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 PI0
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 SIGMA0
MESON RESONANCE VECTOR MESON
MESON RESONANCE XI
MESON RESONANCE XI-
MESON RESONANCE X10
MESON SIGMA
MESON SIGMA+
MESON SIGMA-
MESON SIGMA0
MESON VECTOR MESON
MESON XI
MESON XI-
MESON X10
METAL
MICROWAVES
MINERAL
*MISSING-MASS (SPECTROMETER, MISSING-MASS)
-MIXING ('INTERFERENCE' (RESTRICTED USE))
MODEL (WITHOUT SECOND TERM: RESTRICTED USE)
*MOLECULE
MOLYBDENUM
MOMENT
MOMENTUM
MOMENTUM TRANSFER
MONITORING
*MONOCHROMATIC BEAM (PHOTON, MONOCHROMATIC BEAM)
*MONTE CARLO (NUMERICAL CALCULATIONS, MONTE CARLO)
*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 K0
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 PI0
MUON QUARK
MUON SIGMA
MUON SIGMA+
MUON SIGMA-
MUON SIGMA0
MUON VECTOR MESON
MUON XI
MUON XI-
MUON X10
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+ K0
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+ PI0
MUON+ QUARK
MUON+ SIGMA
MUON+ SIGMA+
MUON+ SIGMA-
MUON+ SIGMA0
MUON+ VECTOR MESON
MUON+ XI
MUON+ XI-
MUON+ XI0
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- K0
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- PI0
MUON- QUARK
MUON- SIGMA
MUON- SIGMA+
MUON- SIGMA-
MUON- SIGMA0
MUON- VECTOR MESON
MUON- XI
MUON- XI-
MUON- XI0
-MUONIC ATOM ('MUON, ATOM')
-MUONIUM (ELECTRON MUON, ATOM)

N

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 SIGMAO
P VECTOR MESON
P XI
P XI-
P XIO
-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)
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 KO
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 PIO
PHOTON POSITRON
PHOTON QUARK
PHOTON SIGMA
PHOTON SIGMA+
PHOTON SIGMA-
PHOTON SIGMAO
PHOTON VECTOR MESON
PHOTON XI
PHOTON XI-
PHOTON XIO
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 KO
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 PIO
PI QUARK
PI SIGMA
PI SIGMA+
PI SIGMA-
PI SIGMAO
PI VECTOR MESON
PI XI
PI XI-
PI XIO
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+ KO
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+ SIGMAO
PI+ VECTOR MESON
PI+ XI
PI+ XI-
PI+ XIO
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- KO
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- SIGMAO
PI- VECTOR MESON
PI- XI
PI- XI-
PI- XIO
PI/RHO(1540)
-PION EXCHANGE ('EXCHANGE, ONE-PION' OR 'EXCHANGE, MULTIPION')
-PIONIZATION ('MODEL, FRAGMENTATION')
PIO
PIO ANTI-K
PIO ANTI-N
PIO ANTI-P
PIO ANTIBARYON
PIO ANTIHYPERON
PIO ANTILAMBDA
PIO ANTINUCLEON
PIO ANTISIGMA
PIO ANTIXI
PIO BARYON
PIO BARYON RESONANCE
PIO DEUTERIUM
PIO HYPERON
PIO INTERMEDIATE BOSON
PIO K
PIO K+
PIO K-
PIO KO
PIO LAMBDA
PIO LIGHT NUCLEUS
PIO MESON RESONANCE
PIO N
PIO NUCLEON
PIO NUCLEUS
PIO OMEGA-
PIO P
PIO PI+
PIO PI-
PIO PIO
PIO QUARK
PIO SIGMA
PIO SIGMA+
PIO SIGMA-
PIO SIGMAO
PIO VECTOR MESON
PIO XI
PIO XI-
PIO XIO
*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')
-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 KO
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 PIO
POSITRON POSITRON
POSITRON QUARK
POSITRON SIGMA
POSITRON SIGMA+
POSITRON SIGMA-
POSITRON SIGMAO
POSITRON VECTOR MESON
POSITRON XI
POSITRON XI-
POSITRON XIO
-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)
-PRISMA PLOT (KINEMATICS OR 'EXPERIMENTAL METHODS IN REVIEWS)
PRODUCTION
-PRODUCTION CROSS SECTION ('PRODUCTION' + (GENERALLY) 'TOTAL CROSS SECTION')
PROGRAMMING
-PROJECT ('PROPOSED EXPERIMENT, EXPERIMENTAL EQUIPMENT')
PROMETHIUM
PROPAGATOR
PROPORTIONAL COUNTER
PROPORTIONAL WIRE CHAMBER
PROPOSED EXPERIMENT
PROTACTINIUM
PROTON SYNCHROTRON
*PSEUDOSCALAR (USED ONLY WHEN ESSENTIAL)

P

*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?)
-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')
-ROTATOR (USE 'MODEL, ROTATOR')
RUBBER
RUBIDIUM
RUTHENIUM

S

S(1930)
-S* MESON RESONANCE (ETA(1070))
S-MATRIX
-S-WAVE ('PARTIAL WAVE')
*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)
SECONDARY RADIATION
-SECTOR-FOCUSING CYCLOTRON ('ISOCHRONOUS CYCLOTRON')
SELECTION RULE
SELENIUM
-SELF-CONSISTENT CALCULATION ('BOOTSTRAP' OR, IF QUANTUM MECHANICS, 'APPROXIMATION, HARTREE-FOCK')
-SELF-ENERGY ('RENORMALIZATION')
SEMICONDUCTOR
*SEPARABLE POTENTIAL (MODEL, SEPARABLE POTENTIAL)
*SEPARATED-ORBIT (CYCLOTRON, SEPARATED-ORBIT')
-SHADOW SCATTERING ('MODEL, OPTICAL')
*SHELL (MODEL, SHELL)
SHIELDING
*SHORT-RANGE REPULSION (MODEL, SHORT-RANGE REPULSION)
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
-SINGLE LOOP ('MODEL, DUAL RESONANCE' OR 'DUALITY, FIELD THEORY')
*SL(2,C) (SYMMETRY, SL(2,C))
-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
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
SPINOR
-SPINOR FIELD THEORY ('FIELD THEORY, SPINOR')
-SQUARE-WELL POTENTIAL (POTENTIAL SCATTERING)
*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

T

-T-MATRIX (S-MATRIX)
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
-TCP ('INVARIANCE, CPT' OR 'VIOLATION, CPT')
TECHNETIUM
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)
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
-TOLLER POLE MODEL (PARTIAL WAVE + ANALYTIC PROPERTIES)
-TOPOLOGICAL CROSS SECTION ('TOTAL CROSS SECTION')
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
-TRANSVERSE BEAM OSCILLATION (BETATRON OSCILLATION)
-TREE APPROXIMATION (CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS)
-TREIMAN-YANG TEST (DECAY, ANGULAR DISTRIBUTION)
*TRIPLET (MODEL, TRIPLET + QUARK)
TRITIUM
-TRIUMF (CYCLOTRON)
-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)

U

*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)

V

-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 DOMINANCE (MODEL, VECTOR DOMINANCE)
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)

-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 THEORY (PERTURBATION THEORY?)

W

*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)

X

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
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))

Y

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

YTTERBIUM
YTTRIUM
*YUKAWA (POTENTIAL, YUKAWA)

Z

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