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The DESY Keyword Thesaurus 1977

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

1. Purpose of Keyword Assignment

Our keywords serve the following purposes:

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

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

The total of keywords assigned to a paper may also be of some use as a sort of abstract.

2. Form of Keyword Assignment

Keywords may be used singly or coupled by comma and blank (examples: FIELD THEORY (single) and FIELD THEORY, NONABELIAN (coupled)). While the first term is generally a regular keyword, the second term may be a keyword or a non-keyword. Regular keywords are shown in this Thesaurus ordered by subject (p.3) and ordered alphabetically (p.5).

Non-keywords which are frequently used are standardized; they are contained in the alphabetical list.

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

3. Two-Particle Combination (Reactions)

Most of the combinations of any two particles (but not all) in the list below are single regular keywords. The particle coming first in the list should come first in the combination.

(example: PHOTON NEUTRINO is a keyword, but NEUTRINO PHOTON is not a keyword. Combinations of this type may occur in expressions like PHOTON NEUTRINO, ELASTIC SCATTERING. They also occur on the left-hand side of the reaction equations (see 4)).

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
DEUTERON
LIGHT NUCLEUS
NUCLEUS
QUARK
INTERMEDIATE BOSON

4. Reaction Equations

Reactions of two particles or decay modes are given as in the following exemples:

```
ANTI-P P --> KO K- PI+
P P --> P ANYTHING
DELTA(1236)O --> P PI-
ANTI-P P --> DELTA(1236)(P PI-) PI+ PI-  (+)
```

Particles on the left-hand side are arranged in the order of rising masses, particles on the right-hand side are arranged in the order of falling masses.

5. Other Particle Combinations

Three-particle combinations (non-keywords) succeeding keywords like VERTEX FUNCTION or COUPLING CONSTANT or INTERFERENCE are listed in the order of rising masses (example: COUPLING CONSTANT, MESON NUCLEON NUCLEON). Final or intermediate states are also given if they are of importance; here the particles are listed in parentheses in the order of falling masses (example: FINAL STATE, (NUCLEON 2PI)).

6. Resonances

Meson and baryon resonances are generally named as in the 1976 Particle Data Group Tables; charge states are indicated only for the rho(765) and the Delta(1236).

7. Depth of Indexing

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

8. Alphabetical Keyword List

There are three kinds of entries in the alphabetical list:

regular keywords (boldface and blank space in Column 1)

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

terms which are <u>not</u> used ("-" in Column 1).

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 sorting sequence:
blank.(+*);-/,<>:'=A...Z 0...9

(+) The decay products of the DELTA(1236) are given in parentheses (cf. the previous equation).

KEYWORDS BY SUBJECT

This list contains only the regular keywords. Large-case headings and terms in parentheses are NOT keywords.
For standardized non-keywords the alphabetical list should be consulted.

PARTICLES

photon

lepton

neutrino
  neutrino/e/
  neutrino/mu/
  neutrino/L/
  antineutrino
  antineutrino/e/
  antineutrino/mu/
  antineutrino/L/
electron
  positron
muon
  muon+
  muon-
antilepton
heavy lepton

meson

pi
  pi+
  pi-
  pi0
K
  K+
  K-
  K0
  K0(L)
  K0(S)
  anti-K
  anti-K0
D
  D+
  D0
F

nucleon

p
  anti-p
n
  anti-n
antinucleon

hyperon

Lambda
  Antilambda
Sigma
  Sigma+
  Sigma-
  Sigma0
  Antisigma
Xi
  Xi-
  Xi0
  Antixi
Omega-
antihyperon

meson resonance

eta(549)
epsilon(700)
rho(765)
  rho(765)+
  rho(765)-
  rho(765)0
omega(784)
eta'(958)
delta(970)
S*(1000)
phi(1019)
A1(1070)
B(1235)
f(1260)
D(1285)
A2(1310)
E(1422)
f'(1514)
pi/rho(1540)
rho'(1600)
A3(1640)
omega(1675)
G(1680)
rho(1710)
S(1930)
H(2050)
U(2375)
K*(892)
Q region
  Q1(1300)
  Q2(1400)
K(1420)
L(1770)
K*(1780)
D*
D**
F*
F**
psi mesons
  X(2800)
  J/psi(3100)
  chi(3410)
  PC(3510)
  chi(3550)
  psi(3700)
  psi(3950) structure
  psi(4100) structure
  psi(4400)

baryon resonance

nucleon resonance
N'(1470)
N'(1520)
N'1535)
N(1670)
N(1688)
N''(1700)
N''(1780)
N(1860)
N(2190)
N(2220)
N(2650)
N(3030)
Delta(1236)
  Delta(1236)+
  Delta(1236)++
  Delta(1236)-
  Delta(1236)--
  Delta(1236)0
Delta(1650)
Delta(1670)
Delta(1890)
Delta(1910)
Delta(1950)
Delta(2420)
Delta(2850)
Delta(3230)
Lambda(1405)
Lambda'(1520)
Lambda'(1670)
Lambda''(1690)
Lambda(1815)
Lambda(1830)
Lambda(2100)
Lambda(2350)
Lambda(2585)
Sigma(1385)
Sigma'(1670)
Sigma'(1750)
Sigma(1765)
Sigma(1915)
Sigma''(1940)
Sigma(2030)
Sigma(2250)
Sigma(2455)
Sigma(2620)
Xi(1530)
Xi(1820)
Xi(1940)

(other keywords)

particle
  antiparticle
vector meson
scalar meson
pseudoscalar meson
intermediate boson
baryon
  antibaryon
boson
fermion
  antifermion
quark
hadron
hadron spectroscopy
charged particle
neutral particle
new particle
postulated particle
  search for
  mass enhancement
charmed particle
  charmed hadron
  charmed baryon
  charmed meson
colored particle
strange particle
hyperfragment

nucleus
  light nucleus
  deuteron
  tritium
  excited nucleus
  nuclide
atom
  positronium
ion
(for two-particle
combinations, see
alphabetical list)

PARTICLE PROPERTIES

charge
decay modes
electric moment
excited state
isospin
lifetime
magnetic moment
mass
mass difference
parity
quantum number
spin
  helicity
polarization
strangeness

INTERACTIONS

gravitation

weak interaction

neutral current

electromagnetic interaction

bremsstrahlung
Compton scattering
electroproduction
hyperfine structure
ionization
multiple scattering
pair
photoproduction
radiative correction

strong interaction

charge exchange

(other keywords)

absorption
angular correlation
angular distribution
angular momentum
backscatter
binding energy
capture
channel cross section
coupling
cross section
decay
differential cross section
diffraction
diffusion
elastic scattering
emission
energy dependence
energy levels
energy loss
energy spectrum
exchange
final state
form factor
high energy behavior
inclusive reaction
interference
kinematics
longitudinal momentum
mass spectrum
momentum spectrum
momentum transfer
multiple production
multiplicity
radiation
recoil
scattering
secondary radiation
showers
threshold
total cross section
transverse momentum

INSTRUMENTS AND METHODS

(track measuring)

bubble chamber
bubble chamber (hydrogen)
bubble chamber (deuteron)
bubble chamber (heavy liquid)
cloud chamber
drift chamber
nuclear emulsion
proportional chamber
spark chamber
streamer chamber
hybrid system
track photography
tracks

counters and detectors

Cherenkov counter
four-pi-detector
Geiger-Mueller counter
hodoscope
ionization chamber
liquid argon detector
magnetic detector
magnetic spectrometer
particle identification
proportional counter
scintillation counter
semiconductor detector
shower detector
solid-state counter
spectrometer
total-absorption counter

(electronics and computers)

analog circuit
analog logic
analog-to-digital converter
digital logic
fast logic
preprocessing
microprocessor
CAMAC system
interface
programming
computer

(data analysis)

data analysis method
amplitude analysis
multidimensional analysis
statistical analysis
partial-wave analysis
track data analysis

accelerator

cyclotron
  synchro-cyclotron
betatron
synchrotron
  proton synchrotron
  electron synchrotron
linear accelerator
storage ring

(internal and external beams)

aberration
beam
beam damping
beam dynamics

beam emittance
beam focusing
beam instability
beam loading
beam monitoring
beam optics
beam oscillation
  betatron oscillation
  synchrotron oscillation
beam transport
bending magnet
bunching
colliding beams
ejection
injection
luminosity
particle separator
particle source
pulsed magnet
quadrupole lens
RF system
target

(other keywords)

alignment
background
calibration
coil
feedback
health physics
  dosimetry
magnet
measurement
monitoring
orbit
power supply
secondary radiation
shielding

THEORY OF PARTICLES AND FIELDS

field theory

analytic properties
axiomatic field theory
Bethe-Salpeter equation
dual field theory
expansion 1/N
Feynman graph
field equations
field theoretical model
gauge field theory
light cone behavior
perturbation theory
propagator
quantization
quantum chromodynamics
quantum electrodynamics
renormalization
renormalization group
scaling
statistical mechanics
unified field theory

theory of elementary particles

bootstrap
charged current
current algebra
dispersion relations
duality
final-state interaction
model
Regge poles
  Regge cut
  pomeron
spectral representation
  Mandelstam representation
symmetry
  symmetry breaking
  mass formula
  multiplet
unitarity

(other keywords)

approximation
conservation law
coupling constant
invariance
leptoproduction
many-body problem
  three-body problem
partial wave
potential scattering
S-matrix
scattering amplitude
scattering length
selection rule
spinor
sum rule
vertex function
violation

NUCLEAR PHYSICS

nuclear physics
charge distribution
fission
fusion
nuclear properties
nuclear model
nuclear force
nuclear reaction
photofission
electrofission
radioactivity

GENERAL PHYSICS

astrophysics
atomic physics
correction
correlation
cosmic radiation
current
density
dependence
effect
electric field
electricity
electromagnetic field
elements
energy
flux
fundamental constant
forces
magnetic field
matter
  antimatter
mechanics
moment
momentum
nonrelativistic
optics
plasma
potential
quantum mechanics
relativity theory
resonance
spectra
superconducting
temperature
thermodynamics
transmission

OTHER FIELDS

mathematics

algebra
functional analysis
group theory
mathematical methods
numerical mathematics
statistics
transformation

chemistry

(all elements)

molecular biology

engineering

buildings
communications
control system
electrical engineering
heat engineering
low temperature
mechanical engineering
microwaves
nuclear engineering
power engineering
safety
vacuum system

nuclear medicine

MATERIALS

alloy
ceramics
chemicals
compounds
concrete
crystal
gas
glass
inorganic compounds
liquid
metal
mineral
organic compounds
plastics
rubber
semiconductor
solids
steel
water

MODAL KEYWORDS

activity report
bibliography
book
conference
data compilation
lectures
manual
proposed experiment
review
tables
thesis

1977

*ABC (ENHANCEMENT, ABC)
-ABELIAN FIELD THEORY (USE 'FIELD THEORY')
ABERRATION
*ABFST (MODEL, ABFST)
ABSORPTION
-ABSORPTIVE CORRECTION ('CORRECTION, ABSORPTION'; USED ONLY FOR EXPERIMENTAL CORRECTION)
-ABSORPTIVE MODEL (MODEL, ABSORPTION)
*ABSORPTIVE PERIPHERAL (MODEL, ABSORPTIVE PERIPHERAL)
-ABSTRACT ONLY (NOT USED AS A KEYWORD. APPEARS BEHIND THE TITLE)
ACCELERATOR
*ACCEPTANCE ('COUNTERS AND DETECTORS, ACCEPTANCE' OR 'ACCELERATOR, ACCEPTANCE')
*ACOUSTIC (SPARK CHAMBER, ACCUSTIC)
ACTINIUM
-ACTION PRINCIPLE (SEE 'FIELD THEORY')
-ACTION-AT-A-DISTANCE (AXIOMATIC FIELD THEORY)
ACTIVITY REPORT
-ADC (ANALOG-TO-DIGITAL CONVERTER)
-ADEMOLLO-GATTO THEOREM (SYMMETRY BREAKING)
*ADLER (SUM RULE, ADLER)
-ADLER CONDITION ('MODEL, PCAC' AND 'CURRENT ALGEBRA')
-ADLER-BELL-GROSS-JACKIW (CURRENT ALGEBRA)
*ADLER-DASHEN-GELL-MANN-FUBINI (SUM RULE, ADLER-DASHEN-GELL-MANN-FUBINI)
-ADLER-WEISBERGER RELATION ('MODEL, PCAC' AND 'CURRENT ALGEBRA')
*ADMIXTURE
*AEROGEL (CHERENKOV COUNTER, AEROGEL)
-AGS ACCELERATOR ('PROTON SYNCHROTRON'; FOR EXPERIMENTAL RESULTS USE 'BROOKHAVEN PS')
*AIR (SHOWERS, AIR)
ALGEBRA (SEE ALSO 'ALGEBRA, C*' OR 'ALGEBRA, VON NEUMANN' OR 'ALGEBRA, CLIFFORD' OR 'ALGEBRA, WEYL' OR 'ALGEBRA, LIE' OR 'ALGEBRA, GRASSMANN')
ALIGNMENT (SEE ALSO 'POLARIZATION')
ALLOY
-ALPHA MODEL (NUCLEAR MODEL)
-ALPHA PARTICLE (HELIUM)
ALUMINUM
*AMATI-FUBINI-STANGHELLINI ('MODEL, AMATI-FUBINI-STANGHELLINI' AND 'MODEL, MULTIPERIPHERAL')
AMERICIUM
*AMPLIFIER (SEE ALSO 'ANALOG CIRCUIT'. USED ONLY IN CONNECTION WITH CHAMBERS)
AMPLITUDE ANALYSIS ('INTERPRETATION OF EXPERIMENTS, AMPLITUDE ANALYSIS', 'SPIN, AMPLITUDE ANALYSIS')
ANALOG CIRCUIT (SEE ALSO 'ANALOG LOGIC')
ANALOG LOGIC (SEE ALSO 'ANALOG CIRCUIT')
-ANALOG MODEL
ANALOG-TO-DIGITAL CONVERTER
ANALYTIC PROPERTIES (RESTRICTED USE; NOT FOR REGGE POLOLOGY, STRUCTURE FUNCTIONS AND GENERALLY IN CONNECTION WITH OTHER KEYWORDS, THE ANALYTIC PROPERTIES OF WHICH ARE INVESTIGATED)
-ANALYTICITY (ANALYTIC PROPERTIES)
ANGULAR CORRELATION
*ANGULAR DEPENDENCE
ANGULAR DISTRIBUTION
ANGULAR MOMENTUM
-ANHARMONIC OSCILLATOR (MODEL, OSCILLATOR)
ANISOTROPY (USED ONLY IN COSMIC-RADIATION PROBLEMS)
*ANNIHILATION
*ANOMALY
ANTI-K
ANTI-K BARYON
ANTI-K DEUTERON
-ANTI-K K (K ANTI-K; SEE ALSO 'ANTI-KO KO')
ANTI-K LIGHT NUCLEUS
ANTI-K N
ANTI-K NUCLEON
ANTI-K NUCLEUS
ANTI-K P
ANTI-KO
ANTI-KO BARYON
ANTI-KO BARYON RESONANCE
ANTI-KO DEUTERON
ANTI-KO INTERMEDIATE BOSON
ANTI-KO K+
ANTI-KO K-
ANTI-KO KO
ANTI-KO LAMBDA
ANTI-KO LIGHT NUCLEUS
ANTI-KO MESON RESONANCE
ANTI-KO N
ANTI-KO NUCLEON
ANTI-KO NUCLEUS
ANTI-KO P
ANTI-KO QUARK
ANTI-KO VECTOR MESON
ANTI-N
ANTI-N BARYON RESONANCE
ANTI-N DEUTERON
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 SIGMA0
ANTI-N VECTOR MESON
ANTI-N XI
ANTI-N XI-
ANTI-N XI0
ANTI-P
*ANTI-P ATOM
ANTI-P BARYON RESONANCE
ANTI-P DEUTERON
ANTI-P HYPERON
ANTI-P INTERMEDIATE BOSON
ANTI-P LAMBDA
ANTI-P LIGHT NUCLEUS
ANTI-P N
-ANTI-P NUCLEON (NUCLEON ANTI-P)
ANTI-P NUCLEUS
ANTI-P OMEGA-
ANTI-P P
ANTI-P QUARK
ANTI-P SIGMA
ANTI-P SIGMA+
ANTI-P SIGMA-
ANTI-P SIGMA0
ANTI-P VECTOR MESON
ANTI-P XI
ANTI-P XI-
ANTI-P XI0
ANTIBARYON
ANTIBARYON BARYON RESONANCE
ANTIBARYON DEUTERON
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 SIGMA0
ANTIBARYON VECTOR MESON
ANTIBARYON XI
ANTIBARYON XI-
ANTIBARYON XI0
-ANTIDEUTERON (DEUTERON, ANTIPARTICLE)
ANTIFERMION
ANTIFERMION FERMION
-ANTIHADRON (HADRON, ANTIPARTICLE)
ANTIHYPERON
ANTIHYPERON BARYON RESONANCE
ANTIHYPERON DEUTERON
ANTIHYPERON INTERMEDIATE BOSON
ANTIHYPERON LIGHT NUCLEUS
ANTIHYPERON NUCLEUS
ANTIHYPERON QUARK
ANTILAMBDA
ANTILAMBDA BARYON RESONANCE
ANTILAMBDA DEUTERON
ANTILAMBDA INTERMEDIATE BOSON
ANTILAMBDA LIGHT NUCLEUS
ANTILAMBDA NUCLEUS
ANTILAMBDA QUARK
ANTILAMBDA VECTOR MESON
ANTILEPTON
-ANTILEPTON LEPTON (SEE 'LEPTON ANTILEPTON')
ANTIMATTER
ANTIMONY
ANTINEUTRINO
ANTINEUTRINO ANTI-KO
ANTINEUTRINO ANTI-N
ANTINEUTRINO ANTI-P
ANTINEUTRINO ANTIBARYON

A

ANTINEUTRINO ANTINEUTRINO
ANTINEUTRINO ANTINUCLEON
ANTINEUTRINO BARYON
ANTINEUTRINO BARYON RESONANCE
ANTINEUTRINO BOSON
ANTINEUTRINO DEUTERON
ANTINEUTRINO ELECTRON
ANTINEUTRINO HADRON
ANTINEUTRINO HYPERON
ANTINEUTRINO INTERMEDIATE BOSON
ANTINEUTRINO K
ANTINEUTRINO K+
ANTINEUTRINO K-
ANTINEUTRINO KO
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 PIO
ANTINEUTRINO POSITRON
ANTINEUTRINO QUARK
ANTINEUTRINO SIGMA
ANTINEUTRINO SIGMA+
ANTINEUTRINO SIGMA-
ANTINEUTRINO SIGMAO
ANTINEUTRINO VECTOR MESON
ANTINEUTRINO XI
ANTINEUTRINO XI-
ANTINEUTRINO XIO
ANTINEUTRINO/E/
ANTINEUTRINO/L/ (HEAVY LEPTON ANTINEUTRINO)
ANTINEUTRINO/MU/
-ANTINEUTRINOPRODUCTION (NEUTRINOPRODUCTION)
-ANTINEUTRON (ANTI-N)
ANTINUCLEON
ANTINUCLEON BARYON RESONANCE
ANTINUCLEON DEUTERON
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 SIGMAO
ANTINUCLEON VECTOR MESON
ANTINUCLEON XI
ANTINUCLEON XI-
ANTINUCLEON XIO
*ANTINUCLEUS
ANTIOMEGA-
ANTIPARTICLE
-ANTIPARTICLE PARTICLE (USE 'PARTICLE ANTIPARTICLE')
-ANTIQUARK ('QUARK, ANTIPARTICLE'. SEE ALSO 'QUARK ANTIQUARK')
ANTISIGMA
ANTISIGMA BARYON RESONANCE
ANTISIGMA DEUTERON
ANTISIGMA INTERMEDIATE BOSON
ANTISIGMA LIGHT NUCLEUS
ANTISIGMA NUCLEUS
ANTISIGMA QUARK
ANTISIGMA+
ANTISIGMA-
ANTISIGMAO
ANTIXI
ANTIXI BARYON RESONANCE
ANTIXI DEUTERON
ANTIXI INTERMEDIATE BOSON
ANTIXI LIGHT NUCLEUS
ANTIXI NUCLEUS
ANTIXI QUARK
ANTIXI VECTOR MESON
ANTIXI-
ANTIXIO
*ANYTHING (ONLY IN REACTIONS)
*ANYTHING+ (ONLY IN REACTIONS)
*ANYTHING- (ONLY IN REACTIONS)
*ANYTHINGO (ONLY IN REACTIONS)
APPROXIMATION
-ARGAND PLOT (USE 'PARTIAL-WAVE ANALYSIS')
ARGON
*ARGONNE PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-ARRAY (SEE 'HODOSCOPE' OR 'PROGRAMMING')
ARSENIC
*ASSOCIATED PRODUCTION
ASTATINE
ASTROPHYSICS
*ASYMMETRY
-ASYMPTOTIC BEHAVIOR (GENERALLY '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 LIKE 'REGGE POLES' OR 'FACTORIZATION'. FOR ASYMPTOTIC BEHAVIOR AT LOW ENERGIES SEE 'INFRARED PROBLEM')
*ASYMPTOTIC FREEDOM ('FIELD THEORY, ASYMPTOTIC FREEDOM'; FOR LOW ENERGIES USE 'FIELD THEORY, INFRARED PROBLEM')
*AT REST (IN ENERGY CATEGORY, '0 GEV' IS ADDED)
ATOM
-ATOMIC BEAM (USE 'BEAM, ATOM')
-ATOMIC NUMBER (USE 'MASS NUMBER')
ATOMIC PHYSICS
-AUTOMODELITY (SCALING)
-AUXILIARY CIRCUITS (IF ELECTRONICS, GENERALLY 'DIGITAL LOGIC'. IF NOT ELECTRONICS, 'ELECTRICAL ENGINEERING')
*AXIAL
*AXIAL-VECTOR (CURRENT, AXIAL-VECTOR)
*AXIAL-VECTOR MESON
*AXIAL-VECTOR MESON DOMINANCE (MODEL, AXIAL-VECTOR MESON DOMINANCE)
AXIOMATIC FIELD THEORY
A1(1070)
-A2 EXCHANGE (EXCHANGE, A2(1310))
-A2 SPLITTING (A2(1310), MASS DIFFERENCE)
A2(1310)
A3(1640)

B(1235)
BACKGROUND
-BACKGROUND RADIATION (RADIATION, BACKGROUND)
BACKSCATTER
-BACKWARD SCATTERING (BACKSCATTER)
*BAG (MODEL, BAG)
*BALI-CHEW-PIGNOTTI (MODEL, BALI-CHEW-PIGNOTTI)
-BANACH SPACE (USE 'LINEAR SPACES')
*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 DEUTERON
-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 (CONSERVATION LAW, BARYON)
BARYON OMEGA-
BARYON P
-BARYON POLE MODEL (EXCHANGE, BARYON)
BARYON QUARK
BARYON RESONANCE
-BARYON RESONANCE BARYON RESONANCE (BARYON RESONANCE, BARYON BARYON)
BARYON RESONANCE DEUTERON
-BARYON RESONANCE FORMATION (USE 'BARYON RESONANCE, SCATTERING')
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
-BARYONIC NUMBER (USUALLY 'CONSERVATION LAW, BARYON'; SEE ALSO 'QUANTUM NUMBER, BARYON')
*BATAVIA PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
BEAM
-BEAM CALIBRATION (BEAM MONITORING)
-BEAM CHOPPER (SEE 'BUNCHING')
-BEAM COOLING (USE 'BEAM DAMPING')
BEAM DAMPING
*BEAM DUMPING (STORAGE RING, BEAM DUMPING)
BEAM DYNAMICS
BEAM EMITTANCE
BEAM FOCUSING
BEAM INSTABILITY
-BEAM LINES (SEE 'BEAM TRANSPORT')
BEAM LOADING
BEAM MONITORING
BEAM OPTICS
BEAM OSCILLATION
-BEAM POLARIZATION (USE 'BEAM, POLARIZATION' FOR MEASUREMENT OF POLARIZATION DEGREE. SEE ALSO 'POLARIZED BEAM')
-BEAM SEPARATOR (USE 'PARTICLE SEPARATOR')
-BEAM STOP (SEE 'BEAM DUMPING')
BEAM TRANSPORT
*BEAM-BEAM (SCATTERING, BEAM-BEAM)
*BELL-STEINBERGER (MODEL, BELL-STEINBERGER)
BENDING MAGNET
*BERKELEY CYCL (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*BERKELEY PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
BERKELIUM
-BERMAN-BJORKEN-KOGUT MODEL (TRANSVERSE MOMENTUM, HIGH)
BERYLLIUM
-BETA DECAY (SEMILEPTONIC DECAY)
-BETA FUNCTION (SEE 'BEAM OPTICS' OR 'RENORMALIZATION GROUP, CALLAN-SYMANZIK EQUATION')
BETATRON
BETATRON OSCILLATION
-BETHE-GOLDSTONE (NOT USED)
*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 (SCALING, BJORKEN)
*BJORKEN LIMIT (HIGH ENERGY BEHAVIOR, BJORKEN LIMIT)
-BJORKEN MODEL (HIGH ENERGY BEHAVIOR, BJORKEN LIMIT)
-BJORKEN-JOHNSON-LOW (HIGH ENERGY BEHAVIOR, BJORKEN LIMIT)
-BJORKEN-KOGUT MODEL (USE 'INCLUSIVE REACTION, EXCLUSIVE REACTION')
-BJORKEN-PASCHOS (MODEL, PARTON)
-BLACK HOLE (GRAVITATION)
-BLANKENBECLER-BRODSKY-GUNION (MODEL, CONSTITUENT INTERCHANGE)
-BLOCK TRANSFER (DIGITAL LOGIC, READOUT)
*BLOOM-GILMAN ('SUM RULE, BLOOM-GILMAN' OR 'DUALITY, BLOOM-GILMAN')
*BLOWUP (BEAM, BLOWUP)
-BLUMLEIN LINE (SEE 'POWER SUPPLY' AND 'STREAMER CHAMBER')
*BONN ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
BOOK
*BOOSTER
BOOTSTRAP
*BORN (APPROXIMATION, BORN)
BORON
BOSON (ALSO: 'MODEL, BOSON')
BOSON ANTI-K0
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 DEUTERON
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 ('MODEL' IS OMITTED)
*BOUNDARY CONDITION (MODEL, BOUNDARY CONDITION)
-BOX DIAGRAM (SEE 'FEYNMAN GRAPH' (RESTRICTED USE))
-BPHZ (RENORMALIZATION, REGULARIZATION)
*BRANCH HIGHWAY (CAMAC SYSTEM, BRANCH HIGHWAY)
*BRANCHING RATIO (VERY RESTRICTED USE: ONLY IN CASE OF MEASURED OR CALCULATED NUMERICAL VALUE)

B
-BRANS-DICKE (GRAVITATION)
*BREAKUP ('FISSION, BREAKUP' OR, E.G., 'P, BREAKUP')
*BREIT-WIGNER (MODEL, BREIT-WIGNER)
BREMSSTRAHLUNG (ALSO 'MODEL, BREMSSTRAHLUNG')
-BROKEN SYMMETRY (SYMMETRY BREAKING)
BROMINE
*BROOKHAVEN LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*BROOKHAVEN PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
BUBBLE CHAMBER
BUBBLE CHAMBER(DEUTERON)
BUBBLE CHAMBER(HEAVY LIQUID)
-BUBBLE CHAMBER(HELIUM) (USE 'BUBBLE CHAMBER' AND 'HELIUM')
BUBBLE CHAMBER(HYDROGEN)
BUILDINGS
BUNCHING
*BYPASS (STORAGE RING, BYPASS)
-B5 MODEL ('MODEL, VENEZIANO' AND 'MODEL, N-POINT FUNCTION')

-C INVARIANCE (INVARIANCE, CHARGE CONJUGATION)
-C MESON RESONANCE (Q REGION)
C (ALGEBRA, C*)
-C-PARITY (QUANTUM NUMBER, CHARGE CONJUGATION)
*CABIBBO (MODEL, CABIBBO)
*CABIBBO ANGLE (WEAK INTERACTION, CABIBBO ANGLE)
*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-GROSS (SUM RULE, CALLAN-GROSS)
*CALLAN-SYMANZIK EQUATION (RENORMALIZATION GROUP, CALLAN-SYMANZIK EQUATION)
*CALLAN-TREIMAN RELATION (CURRENT ALGEBRA, CALLAN-TREIMAN RELATION)
-CALORIMETER (SEE 'TOTAL-ABSORPTION COUNTER' OR, IN SPECIAL CASES, 'IONIZATION CHAMBER'; FOR QUANTAMETERS SEE 'IONIZATION CHAMBER' AND 'BEAM MONITORING'; SEE ALSO 'LIQUID ARGON DETECTOR')
*CALTECH ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
CAMAC SYSTEM
*CAMBRIDGE ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*CANESCHI-PIGNOTTI (MODEL, CANESCHI-PIGNOTTI)
CAPTURE
CARBON
*CARLITZ-KISLINGER (MODEL, CARLITZ-KISLINGER)
*CASCADE ('MODEL, CASCADE' OR 'DECAY, CASCADE' OR 'NUCLEUS, CASCADE'; NOT USED FOR SHOWERS)
-CASCADE EVAPORATION MODEL (MODEL, CASCADE)
-CASIMIR OPERATOR (USE 'GROUP THEORY')
-CASTILLEJO-DALITZ-DYSON POLES (PARTIAL WAVE, DISPERSION RELATIONS)
*CAUSALITY (SEE 'FIELD THEORY, CAUSALITY', 'QUANTUM MECHANICS, CAUSALITY' OR 'DISPERSION RELATIONS, CAUSALITY')
-CAVITY (SEE 'RF SYSTEM')
-CC (SEE 'CAMAC SYSTEM, CONTROLLER')
-CDD POLES (PARTIAL WAVE, DISPERSION RELATIONS)
*CELLO (PROPOSED FOR PETRA; 'MAGNETIC DETECTOR, CELLO')
*CENTRAL REGION (USE 'INCLUSIVE REACTION, CENTRAL REGION')
CERAMICS
CERIUM
*CERN CYCL (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*CERN SPS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*CERN STOR (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*CERN1 PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*CERN2 PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-CERULUS-MARTIN (USE 'HIGH ENERGY BEHAVIOR' AND 'SCATTERING, WIDE-ANGLE')
CESIUM
-CGL (DISPERSION RELATIONS, CHEW-GOLDBERGER-LOW)
-CGLN (DISPERSION RELATIONS, CHEW-GOLDBERGER-LOW-NAMBU)
*CHAN-LOSKIEWICZ-ALLISON (MODEL, CHAN-LOSKIEWICZ-ALLISON)
-CHANNEL (NOT TRANSLATED)
CHANNEL CROSS SECTION (USED FOR THE INTEGRATED DIFFERENTIAL CROSS SECTION OF A CHANNEL)
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 INDEPENDENCE (USE 'NUCLEAR FORCES' OR 'MESON NUCLEON, INTERACTION')
-CHARGE STATISTICS (CHARGE, STATISTICS)
CHARGED CURRENT
CHARGED PARTICLE
*CHARGED SCALAR (EXCHANGE, CHARGED SCALAR)
-CHARGED SCALAR STATIC MODEL ('MODEL, STATIC' AND 'EXCHANGE, CHARGED SCALAR')
*CHARM (QUARK, CHARM)
*CHARM CHANGING (CURRENT, CHARM CHANGING)
CHARMED BARYON
CHARMED HADRON
CHARMED MESON
CHARMED PARTICLE
*CHARMONIUM (QUARK, CHARMONIUM)
-CHARPAK CHAMBER (PROPORTIONAL CHAMBER)
CHEMICALS
CHEMISTRY
-CHENG-DASHEN (SYMMETRY, CHIRAL)
*CHENG-WU (MODEL, CHENG-WU)
*CHERENKOV (RADIATION, CHERENKOV)
CHERENKOV COUNTER
-CHERENKOV RADIATION (RADIATION, CHERENKOV)
-CHERENKOV SPECTROMETER ('CHERENKOV COUNTER' AND 'COUNTERS AND DETECTORS')
-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, CHEW-LOW)
*CHEW-MANDELSTAM (MODEL, CHEW-MANDELSTAM)
-CHEW-PIGNOTTI (MODEL, MULTIPERIPHERAL)
CHI(3410)
*CHI(3450) (NEW PARTICLE, CHI(3450))
-CHI(3510) (USE 'PC(3510)')
CHI(3550)
*CHIRAL (GENERALLY 'SYMMETRY, CHIRAL')
CHLORINE
*CHOU-YANG (MODEL, CHOU-YANG)
CHROMIUM
-CIM (USE 'MODEL, CONSTITUENT INTERCHANGE')
-CIRCUIT ANALYSIS (SEE 'ELECTRONICS')
-CLA (MODEL, CHAN-LOSKIEWICZ-ALLISON)
*CLASSICAL (FIELD THEORY, CLASSICAL)
*CLEBSCH-GORDAN COEFFICIENTS (GROUP THEORY, CLEBSCH-GORDAN COEFFICIENTS)
*CLIFFORD (ALGEBRA, CLIFFORD)
-CLOSED-LOOP DIAGRAM ('FIELD THEORY, HIGHER-ORDER' OR 'DUALITY, HIGHER-ORDER')
-CLOSED-ORBIT CORRECTION (CORRECTION, ORBIT)
*CLOSURE (APPROXIMATION, CLOSURE)
CLOUD CHAMBER
*CLUSTER (MODEL, CLUSTER)
*CLUSTER ANALYSIS ('MULTIDIMENSIONAL ANALYSIS, CLUSTER ANALYSIS')
-CLUSTER EXPANSION ('FIELD THEORY' OR 'NUCLEAR PHYSICS')
COBALT
-COHEN-TANNOUDJI-HENYEY-KANE (SEE 'MODEL, ABSORPTION')
*COHERENT INTERACTION (ALSO 'MODEL, COHERENT INTERACTION')
*COHERENT PRODUCTION
*COHERENT STATE (SEE 'QUANTUM MECHANICS, COHERENT STATE' OR 'QUANTUM ELECTRODYNAMICS, COHERENT STATE')
COIL
*COINCIDENCE (FAST LOGIC, COINCIDENCE)
-COLEMAN-GLASHOW FORMULA (BARYON, MASS DIFFERENCE)
-COLEMAN-WEINBERG INSTABILITY (SYMMETRY BREAKING)
*COLLECTIVE (USED ONLY IN 'ACCELERATOR, COLLECTIVE', SEE ALSO 'COLLECTIVE PHENOMENA')
*COLLECTIVE PHENOMENA ('FIELD THEORY, COLLECTIVE PHENOMENA' OR 'NUCLEAR PHYSICS, COLLECTIVE PHENOMENA')
COLLIDING BEAMS (FOR EXPERIMENTS ONLY. FOR ACCELERATOR ASPECTS SEE 'STORAGE RING')
-COLLIDING-BEAM DETECTORS (USE APPROPRIATE KEYWORDS FOR CHAMBERS OR DETECTORS; SEE ALSO 'MAGNETIC DETECTOR' OR 'HYBRID SYSTEM' OR 'FOUR-PI-DETECTOR'; ADD 'MAGNETIC FIELD' WHERE APPROPRIATE)
*COLOR (QUARK, COLOR)
COLORED PARTICLE
COMMUNICATIONS
*COMMUTATION RELATIONS ('FIELD THEORY, COMMUTATION RELATIONS' OR 'CURRENT ALGEBRA, COMMUTATION RELATIONS' OR 'QUANTUM MECHANICS, COMMUTATION RELATIONS')
-COMMUTATOR (SEE 'COMMUTATION RELATIONS')
-COMPARISON OF EXPERIMENTAL RESULTS (INTERPRETATIO OF EXPERIMENTS)
-COMPILER (USE 'COMPUTER' AND 'PROGRAMMING')
-COMPLEX REGGE POLES (REGGE POLES)
*COMPOSITE (MODEL, COMPOSITE)
-COMPOSITE BOSON ('MODEL, BOSON' AND 'MODEL, COMPOSITE')
-COMPOSITE PARTICLE MODEL (MODEL, COMPOSITE)
-COMPOUND NUCLEUS (NUCLEAR REACTION)
COMPOUNDS
COMPTON SCATTERING
COMPUTER

C **CONCRETE**
*CONDENSATION (SEE 'PI, CONDENSATION' OR 'N, CONDENSATION')
CONFERENCE
*CONFIGURATION (INTERFERENCE, CONFIGURATION)
-CONFIGURATION MIXING (INTERFERENCE, CONFIGURATION)
*CONFINEMENT (QUARK, CONFINEMENT)
*CONFORMAL (INVARIANCE, CONFORMAL)
-CONFORMAL MAPPING (SEE 'NUMERICAL MATHEMATICS' OR 'ANALYTIC PROPERTIES' OR 'DATA ANALYSIS METHOD')
CONSERVATION LAW
*CONSERVED A-V CURRENT (MODEL, CONSERVED A-V CURRENT)
*CONSERVED VECTOR CURRENT (MODEL, CONSERVED VECTOR CURRENT)
-CONSPIRACY (USE 'REGGE POLES, FORWARD SCATTERING')
*CONSTITUENT INTERCHANGE (MODEL, CONSTITUENT INTERCHANGE)
-CONSTITUENT QUARK (SEE 'QUARK' OR 'MODEL, QUARK PARTON')
*CONSTRUCTIVE (FIELD THEORY, CONSTRUCTIVE)
*CONTACT COUPLING (MODEL, CONTACT COUPLING)
-CONTACT INTERACTION (MODEL, CONTACT COUPLING)
-CONTAMINATION (SEE 'DOSIMETRY' OR 'BACKGROUND' OR 'ADMIXTURE')
*CONTINUOUS MASS (SUM RULE, CONTINUOUS MASS)
*CONTINUOUS MOMENT (SUM RULE, CONTINUOUS MOMENT)
CONTROL SYSTEM
*CONTROLLER (CAMAC SYSTEM, CONTROLLER)
*COPLANAR (ANGULAR DISTRIBUTION, COPLANAR)
COPPER
*CORNELL ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
CORRECTION
CORRELATION
COSMIC RADIATION
-COSMOLOGY (SEE 'ASTROPHYSICS')
*COSTS
-COTTINGHAM FORMULA (MASS DIFFERENCE)
*COULOMB
-COULOMB DISSOCIATION (NUCLEAR REACTION, COULOMB SCATTERING)
*COULOMB SCATTERING
COUNTERS AND DETECTORS
*COUPLED CHANNEL (PARTIAL-WAVE ANALYSIS, COUPLED CHANNEL)
COUPLING (RESTRICTED USE)
COUPLING CONSTANT (RESTRICTED USE, ONLY IN COMBINATIONS WITH PARTICLES)
-COVARIANCE (USE 'INVARIANCE, LORENTZ' (RESTRICTED USE))
*CP ('INVARIANCE, CP' OR 'VIOLATION, CP')
*CPT ('INVARIANCE, CPT' OR 'VIOLATION, CPT')
-CRATE CONTROLLER (CAMAC SYSTEM, CONTROLLER)
-CRITICAL EXPONENT (SEE 'CRITICAL PHENOMENA')
*CRITICAL PHENOMENA ('FIELD THEORY, CRITICAL PHENOMENA' OR 'THERMODYNAMICS, CRITICAL PHENOMENA' OR 'STATISTICAL MECHANICS, CRITICAL PHENOMENA')
-CRITICAL POINT (SEE 'CRITICAL PHENOMENA')
CROSS SECTION (RESTRICTED USE, SEE ALSO 'TOTAL CROSS SECTION' OR 'DIFFERENTIAL CROSS SECTION' OR 'CHANNEL CROSS SECTION')
*CROSSING (SYMMETRY, CROSSING)
-CRYOGENICS (SEE 'LOW TEMPERATURE' OR 'SUPERCONDUCTING')
CRYSTAL
-CRYSTAL SCINTILLATOR (USE 'SCINTILLATION COUNTER, CRYSTAL')
CURIUM
CURRENT (RESTRICTED USE)
CURRENT ALGEBRA
-CURRENT COMMUTATION RELATIONS (CURRENT ALGEBRA, COMMUTATION RELATIONS)
-CURRENT COMMUTATORS (CURRENT ALGEBRA, COMMUTATION RELATIONS)
-CURRENT CONSERVATION LAW (CURRENT, CONSERVATION LAW)
-CURRENT QUARK MODEL (QUARK, CURRENT)
*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

D
D(1285)
D+
D*
D**
*D/F RATIO (COUPLING CONSTANT, D/F RATIO)
-DAC
*DALITZ PLOT (MULTIDIMENSIONAL ANALYSIS, DALITZ PLOT)
-DAMA ('MODEL, DUAL RESONANCE' AND 'ANALYTIC PROPERTIES')
*DAMAGE (RADIATION, DAMAGE)
-DAMPING (SEE 'ENERGY LOSS' OR 'BEAM DAMPING')
-DASHEN-FUBINI-GELL-MANN (SEE 'SUM RULE, ADLER-DASHEN-GELL-MANN-FUBINI')
*DASP (AT DORIS; 'MAGNETIC DETECTOR, DASP')
-DATA ANALYSIS (SEE 'STATISTICAL ANALYSIS' OR 'MULTIDIMENSIONAL ANALYSIS' OR 'PARTIAL-WAVE ANALYSIS' OR 'DATA COMPILATION' OR 'DATA ANALYSIS METHOD')
DATA ANALYSIS METHOD (RESTRICTED USE)
-DATA COLLECTION (SEE 'DATA COMPILATION')
DATA COMPILATION
-DATA HANDLING (SEE 'COMPUTER')
-DATA PRESENTATION (SEE 'INTERPRETATION OF EXPERIMENTS' OR 'DATA ANALYSIS METHOD')
-DATA PROCESSING (SEE 'COMPUTER')
*DE SITTER ('GROUP THEORY, DE SITTER' OR 'ALGEBRA, DE SITTER')
DECAY
-DECAY CROSS SECTION (DECAY)
DECAY MODES (RESTRICTED TO CASES WHERE NUMERICAL VALUES ARE GIVEN, OTHERWISE USE 'DECAY')
-DECAY RATES (USE 'DECAY MODES')
-DECAY WIDTH ('PARTICLE, WIDTH' AND PROBABLY 'PARTICLE, BRANCHING RATIO')
*DECISION (ONLY USED AS 'FAST LOGIC, DECISION')
*DECK ('EFFECT, DECK')
-DECK MODEL (SEE 'EFFECT, DECK')
*DEEP INELASTIC SCATTERING (ALSO 'MODEL, DEEP INELASTIC SCATTERING')
-DEFORMABLE SPHERE MODEL (MODEL, PARTICLE)
-DEFORMED NUCLEUS (NUCLEAR PROPERTIES)
*DELAY LINE (PROPORTIONAL CHAMBER, DELAY LINE)
*DELBRUECK (SCATTERING, DELBRUECK)
*DELTA ('NUCLEON RESONANCE, DELTA' (WITH I=3/2))
-DELTA(I)=... (SELECTION RULE, ISOSPIN)
-DELTA(S)=... ('SELECTION RULE, STRANGENESS', SEE ALSO 'CURRENT, STRANGENESS CHANGING')
DELTA(1236)
DELTA(1236)+
DELTA(1236)++
DELTA(1236)-
DELTA(1236)--
DELTA(1236)0
DELTA(1650)
DELTA(1670)
DELTA(1890)
DELTA(1910)
DELTA(1950)
DELTA(2420)
DELTA(2850)
DELTA(3230)
-DELTA(962) (DELTA(970))
DELTA(970)
DENSITY
*DENSITY MATRIX (GENERALLY 'SPIN, DENSITY MATRIX')
-DENSITY MODEL (MODEL, DUAL RESONANCE)
DEPENDENCE (RESTRICTED USE)
*DEPOLARIZATION (POLARIZATION, DEPOLARIZATION)
-DESER-GILBERT-SUDARSHAN (SEE 'SPECTRAL REPRESENTATION')
*DESY ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*DESY STOR (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-DETECTION ('COUNTERS AND DETECTORS' OR 'MEASUREMENT' OR 'PARTICLE IDENTIFICATION')
-DETECTOR (USE MORE SPECIFIC KEYWORDS)
-DEUTERIUM (USE 'DEUTERON')
DEUTERON (ALSO USED FOR DEUTERIUM NUCLEUS)
DEUTERON DEUTERON
DEUTERON INTERMEDIATE BOSON
DEUTERON LIGHT NUCLEUS
-DEUTERON MODEL (MODEL, DEUTERON)
DEUTERON NUCLEUS
DEUTERON QUARK
-DIAGONALIZATION
DIFFERENTIAL CROSS SECTION (FOR THE INTEGRATED DIFFERENTIAL CROSS SECTION OF A CHANNEL, USE 'CHANNEL CROSS SECTION')
DIFFRACTION
-DIFFRACTION DISSOCIATION (DIFFRACTION, DISSOCIATION)
-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 EXCITATION (MODEL, DIFFRACTION)
-DIFFRACTIVE PRODUCTION (DIFFRACTION, PRODUCTION)
DIFFUSION
-DIFFUSION CHAMBER (CLOUD CHAMBER)
DIGITAL LOGIC ('DIGITAL LOGIC, READOUT' OR 'DIGITAL LOGIC, INTERFACE')
-DIGITAL-ANALOG CONVERTER (SEE 'ANALOG CIRCUIT')
-DIGITAL-DIGITAL CIRCUIT (DIGITAL LOGIC)
-DIKAON (SEE, E.G., 'FINAL STATE, (2K)')
-DILATATION (USE 'SYMMETRY, DILATION')
*DILATION (SYMMETRY, DILATION)
-DILATON (USE 'SYMMETRY, DILATION')
*DILEPTON (FINAL STATE, DILEPTON)
-DIMENSIONAL ANALYSIS (IN THEORY: SEE 'HIGH ENERGY BEHAVIOR')
*DIMUON (FINAL STATE, DIMUON)
*DIP (DIFFERENTIAL CROSS SECTION, DIP)
-DIP MECHANISM (NOT USED)
*DIPION
-DIPOLE (SEE 'FORM FACTOR')
-DIPOLE MAGNET (SEE 'BENDING MAGNET')
*DIQUARK (USED SINGLY)
*DIRAC (FIELD EQUATIONS, DIRAC)
-DIRAC PARTICLE ('FERMION', SEE ALSO 'FIELD EQUATIONS' OR 'ELECTROMAGNETIC, RADIATION')
*DIRECT PRODUCTION
-DIRECT REACTION (SEE 'NUCLEAR REACTION')
-DISCHARGE CHAMBER (SPARK CHAMBER)
-DISCRIMINATOR (ANALOG-TO-DIGITAL CONVERTER)
*DISPERSION
DISPERSION RELATIONS
-DISPERSION THEORY (DISPERSION RELATIONS)
-DISPLAY (FREQUENTLY: PULSE-HEIGHT ANALYZER)
*DISSOCIATION (DIFFRACTION, DISSOCIATION)
*DISTORTED WAVE BORN (APPROXIMATION, DISTORTED WAVE BORN)
*DISTORTED WAVE IMPULSE (APPROXIMATION, DISTORTED WAVE IMPULSE)
-DISTRIBUTION (IN EXPERIMENTAL PAPERS SEE 'SPECTRA' OR 'ANGULAR DISTRIBUTION' OR 'ENERGY SPECTRUM' OR 'MASS SPECTRUM')
-DISTRIBUTION FUNCTION (NOT USED)
DOSIMETRY
-DOUBLE ABSORPTION (USE 'ABSORPTION' AND 'FINAL-STATE INTERACTION')
-DOUBLE CAPTURE (USE 'CAPTURE, MULTIPLE')
-DOUBLE CHARGE EXCHANGE (USE 'CHARGE EXCHANGE, MULTIPLE')
-DOUBLE EXCHANGE (SEE 'REGGE POLES, MULTI-REGGE' OR 'RADIATIVE CORRECTION' OR 'FINAL-STATE INTERACTION' OR 'CHARGE EXCHANGE, MULTIPLE')
-DOUBLE EXCITATION (SEE 'EXCITED STATE')
-DOUBLE PAIR PRODUCTION (PAIR PRODUCTION, MULTIPLE PRODUCTION)
-DOUBLE PERIPHERAL (MODEL, PERIPHERAL)
-DOUBLE REGGE EXCHANGE (REGGE POLES, MULTI-REGGE)
-DOUBLE REGGE POLE (REGGE POLES, MULTI-REGGE)
-DOUBLE SCATTERING (SEE 'EXCHANGE' OR 'MULTIPLE SCATTERING')
-DOUBLE SPECTRAL FUNCTION (MANDELSTAM REPRESENTATION)
-DOUBLE-ARM SPECTROMETER (SEE 'MAGNETIC SPECTROMETER')
-DOUBLET (POSSIBLY 'MASS DIFFERENCE')
-DRELL EFFECT (USE 'PI+ PI-, PHOTOPRODUCTION' AND 'EXCHANGE, ONE-MESON')
-DRELL RATIO (USE 'ELECTRON POSITRON, ANNIHILATION' AND 'TOTAL CROSS SECTION, RATIO')
*DRELL-HEARN-GERASIMOV (SUM RULE, DRELL-HEARN-GERASIMOV)
-DRELL-HIIDA-DECK MODEL (USE 'EFFECT, DECK')
-DRELL-LEVY-YAN (USE 'MODEL, PARTON')
*DRELL-YAN ('MODEL, PARTON' AND 'MODEL, DRELL-YAN')
*DRELL-YAN-WEST (MODEL, DRELL-YAN-WEST)
-DRESSED PARTICLE (SEE 'FIELD THEORY, PROPAGATOR' AND 'RENORMALIZATION')
DRIFT CHAMBER
*DROPLET (MODEL, DROPLET)
-DUAL ABSORPTIVE MODEL (MODEL, ABSORPTION)
-DUAL AMPLITUDE WITH MANDELSTAM ANALYTICITY ('MODEL, DUAL RESONANCE' AND 'ANALYTIC PROPERTIES')

D -DUAL DIFFRACTION ('DIFFRACTION' AND 'DUALITY')
DUAL FIELD THEORY (SEE ALSO 'FIELD THEORY, DUALITY')
*DUAL RESONANCE (MODEL, DUAL RESONANCE)
-DUAL-LOOP MODEL (DUAL FIELD THEORY, HIGHER-ORDER)
DUALITY (USUALLY WITHOUT 'REGGE POLES')
*DUBNA CYCL (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*DUBNA PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*DUERR-PILKUHN (MODEL, DUERR-PILKUHN)
-DUFFIN-KEMMER (FIELD EQUATIONS)
-DUFFIN-KEMMER-PETIAU (FIELD EQUATIONS)
-DWBA (APPROXIMATION, DISTORTED WAVE BORN)
-DYNAMIC GROUP (GROUP THEORY)
-DYNAMICAL (NOT USED)
-DYNAMICS (NOT USED)
-DYSON REPRESENTATION (SPECTRAL REPRESENTATION)
DYSPROSIUM
DO

E(1422)
-ECONOMY (SEE 'COSTS')
-EDDY CURRENT (SEE 'MAGNETIC FIELD' AND POSSIBLY 'CORRECTION')
EFFECT (RESTRICTED USE)
*EFFECTIVE LAGRANGIANS ('CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS', OR 'FIELD THEORY, EFFECTIVE LAGRANGIANS')
-EFFECTIVE MASS (SEE 'MASS SPECTRUM')
*EFFECTIVE POTENTIAL (APPROXIMATION, EFFECTIVE POTENTIAL)
*EFFECTIVE RANGE (APPROXIMATION, EFFECTIVE RANGE)
-EIGENSTATE (SEE 'ENERGY EIGENSTATE')
-EIGHTFOLD WAY (SYMMETRY, SU(3))
*EIKONAL ('APPROXIMATION, EIKONAL' OR 'REGGE CUT')
EINSTEINIUM
EJECTION
-ELASTIC CROSS SECTION (ELASTIC SCATTERING)
ELASTIC SCATTERING
-ELASTIC TOTAL CROSS SECTION (USE 'ELASTIC SCATTERING, CHANNEL CROSS SECTION')
-ELASTICITY (ELASTIC SCATTERING, CHANNEL CROSS SECTION)
*ELECTRIC
ELECTRIC FIELD
ELECTRIC MOMENT
ELECTRICAL ENGINEERING
ELECTRICITY
ELECTROFISSION (FISSION DUE TO ELECTRONS OR MUONS)
*ELECTROMAGNETIC
*ELECTROMAGNETIC COMPONENT (COSMIC RADIATION, ELECTROMAGNETIC COMPONENT)
*ELECTROMAGNETIC DECAY (SEE ALSO 'RADIATIVE DECAY')
ELECTROMAGNETIC FIELD
-ELECTROMAGNETIC FORM FACTOR (USE 'FORM FACTOR')
ELECTROMAGNETIC INTERACTION (ALSO: 'MODEL, ELECTROMAGNETIC INTERACTION')
-ELECTROMAGNETIC MIXING (INTERFERENCE, ELECTROMAGNETIC (RESTRICTED USE))
ELECTRON (USE ALSO WHEN CHARGE IS IRRELEVANT)
ELECTRON ANTI-KO
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 COOLING (SEE 'BEAM DAMPING')
ELECTRON DEUTERON
ELECTRON ELECTRON (USE ALSO WHEN CHARGE IS IRRELEVANT)
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 (FOR THE INTERACTION USE 'NEUTRINO ELECTRON'; FOR THE PARTICLE USE 'NEUTRINO/E/')
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' (NOT COUPLED WITH 'ION' OR 'HEAVY ION'))
ELECTRON SIGMA
ELECTRON SIGMA+
ELECTRON SIGMA-
ELECTRON SIGMAO
-ELECTRON SPECTROMETER (SEE 'MAGNETIC SPECTROMETER')
ELECTRON SYNCHROTRON
ELECTRON VECTOR MESON
ELECTRON XI
ELECTRON XI-
ELECTRON XIO
-ELECTRONICS (USE MORE SPECIFIC KEYWORDS)
ELECTROPRODUCTION (NORMALLY USED WHEN PARTICLES ARE PRODUCED BY ELECTRONS OR MUONS; FOR q-SQUARED=0 SEE 'PHOTOPRODUCTION')
*ELECTROSTATIC
-ELECTROSTATIC ACCELERATOR (ACCELERATOR, ELECTROSTATIC)
-ELECTROSTATIC SEPARATOR (USE 'PARTICLE SEPARATOR')
-ELEMENTARY LENGTH (SEE 'FUNDAMENTAL CONSTANT, LENGTH')
ELEMENTS
EMISSION
-EMULSION CHAMBER (USE 'NUCLEAR EMULSION' AND POSSIBLY 'TOTAL-ABSORPTION COUNTER')
-ENCODER (DIGITAL LOGIC)
ENERGY
ENERGY DEPENDENCE
*ENERGY EIGENSTATE ('QUANTUM MECHANICS, ENERGY EIGENSTATE' OR 'FIELD THEORY, ENERGY EIGENSTATE' OR 'QUANTUM ELECTRODYNAMICS, ENERGY EIGENSTATE'. NOT USED FOR ENERGY LEVELS OR EXCITED STATES.)
ENERGY LEVELS
ENERGY LOSS
*ENERGY RESOLUTION (COUNTERS AND DETECTORS, ENERGY RESOLUTION)
ENERGY SPECTRUM
-ENERGY SPREAD (SEE 'ENERGY SPECTRUM')
*ENERGY-MOMENTUM (TENSOR, ENERGY-MOMENTUM)
-ENERGY-RANGE RELATION (ENERGY LOSS)
*ENHANCEMENT ('TOTAL CROSS SECTION, ENHANCEMENT', 'DIFFERENTIAL CROSS SECTION, ENHANCEMENT', 'CROSS SECTION, ENHANCEMENT')
EPSILON(700)
-EQUAL-TIME COMMUTATOR ('CURRENT ALGEBRA, COMMUTATION RELATIONS' OR 'FIELD THEORY, COMMUTATION RELATIONS')
-EQUILIBRIUM (SEE 'STATISTICAL MECHANICS' OR 'THERMODYNAMICS')
*EQUIVALENT PHOTON (APPROXIMATION, EQUIVALENT PHOTON)
ERBIUM
*EREVAN ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*ERICSON FLUCTUATIONS (STATISTICS, ERICSON FLUCTUATIONS)
-ETA ETA' MIXING' (INTERFERENCE, ETA(549)-ETA'(958))
*ETA(C) (POSTULATED PARTICLE, ETA(C))
-ETA(1070) (SEE 'S*(1000)')
ETA(549)
*ETA(549)-ETA'(958)
-ETA(700-1000) (EPSILON(700))
ETA'(958)
EUROPIUM
-EVAPORATION MODEL (MULTIPLE PRODUCTION)
-EVENT SELECTOR (SEE 'MICROPROCESSOR, PREPROCESSING')
EXCHANGE
*EXCHANGE DEGENERACY (USED IN CONNECTION WITH REGGE POLOLOGY)
-EXCHANGE INTERFERENCE (EXCHANGE, INTERFERENCE)
-EXCHANGE MODEL (EXCHANGE)
-EXCITATION (SEE 'EXCITED STATE' OR 'EXCITED NUCLEUS')
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', 'ATOM, EXOTIC')
EXPANSION 1/N
*EXPERIMENTAL EQUIPMENT
*EXPERIMENTAL METHODS
*EXPERIMENTAL RESULTS
*EXTENDED PARTICLE (MODEL, EXTENDED PARTICLE)
*EXTENSIVE (SHOWERS, EXTENSIVE)
*EXTERNAL (SYMMETRY, EXTERNAL)
*EXTERNAL FIELD ('FIELD THEORY, EXTERNAL FIELD' (RESTRICTED USE))

F F
*F MESON DOMINANCE (MODEL, F MESON DOMINANCE)
F(1260)
F*
F**
-F/D RATIO (COUPLING CONSTANT, D/F RATIO)
F'(1514)
-FABBRI PLOT (KINEMATICS)
*FACTORIZATION
-FADDEEV EQUATIONS (MANY-BODY PROBLEM)
*FANIN (FAST LOGIC, FANIN)
*FANOUT (FAST LOGIC, FANOUT)
FAST LOGIC ('FAST LOGIC, DECISION' OR 'FAST LOGIC, TIME-OF-FLIGHT' OR 'FAST LOGIC, COINCIDENCE' OR 'FAST LOGIC, FANIN' OR 'FAST LOGIC, FANOUT')
FEEDBACK (USED ONLY IN CONNECTION WITH ACCELERATORS. IN OTHER CASES SEE 'COUPLING')
-FERMI COUPLING (USE 'WEAK INTERACTION, CURRENT-CURRENT')
*FERMI GAS (MODEL, FERMI GAS)
-FERMI INTERACTION (SEE 'FERMION')
-FERMI MOTION CORRECTION (USE 'NUCLEAR PHYSICS, CORRECTION')
-FERMI STATISTICS (FERMION, STATISTICS)
*FERMI-YANG (MODEL, FERMI-YANG)
FERMION (ALSO 'MODEL, FERMION' AND 'STATISTICS' FOR FERMION MODEL)
FERMION ANTI-K
FERMION ANTI-KO
FERMION ANTI-N
FERMION ANTI-P
FERMION ANTIBARYON
-FERMION ANTIFERMION (SEE 'ANTIFERMION FERMION')
FERMION ANTIHYPERON
FERMION ANTILAMBDA
FERMION ANTINEUTRINO
FERMION ANTINUCLEON
FERMION ANTISIGMA
FERMION ANTIXI
FERMION BARYON
FERMION BARYON RESONANCE
FERMION BOSON
FERMION DEUTERON
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' AND '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 MESON
FERMION XI
FERMION XI-
FERMION XIO
FERMIUM
-FESR (SUM RULE, FINITE ENERGY)
*FEYNMAN (SCALING, FEYNMAN)
-FEYNMAN FLUID (USE 'SCALING, FEYNMAN' OR 'MODEL, FLUID')
-FEYNMAN GAS (USE 'SCALING, FEYNMAN' OR 'MODEL, GAS')
-FEYNMAN GAUGE (GAUGE FIELD THEORY)
FEYNMAN GRAPH (RESTRICTED USE)
-FEYNMAN INTEGRAL (USE 'FEYNMAN GRAPH')
-FEYNMAN PATH (SEE 'FIELD THEORY, PATH INTEGRAL' OR 'PERTURBATION THEORY, PATH INTEGRAL')
-FEYNMAN RULE (SEE 'FEYNMAN GRAPH' OR 'PERTURBATION THEORY')
-FEYNMAN-KISSLINGER-RAVNDAL MODEL (QUARK)
-FFAG ('SYNCHROTRON' OR 'CYCLOTRON')
*FIBRE BUNDLE (FIELD THEORY, FIBRE BUNDLE)
FIELD EQUATIONS
FIELD THEORETICAL MODEL
FIELD THEORY (SEE ALSO 'GAUGE FIELD THEORY' OR 'FIELD THEORETICAL MODEL' OR 'UNIFIED FIELD THEORY' OR 'DUAL FIELD THEORY' OR 'REGGEON FIELD THEORY')
-FIERZ CROSSING SYMMETRY (MODEL, FOUR-FERMION INTERACTION)
FINAL STATE (RESTRICTED USE, EXAMPLES: 'FINAL STATE, (P 2PI)'; 'FINAL STATE, DIMUON')
FINAL-STATE INTERACTION
*FINE STRUCTURE (ATOMIC PHYSICS, FINE STRUCTURE)
*FINITE ENERGY (SUM RULE, FINITE ENERGY)
*FINITE MASS (SUM RULE, FINITE MASS)
*FINITE MOMENTUM
*FIREBALL (MODEL, FIREBALL)
FISSION
-FIT ('INTERPRETATION OF EXPERIMENTS, ...' OR 'STATISTICAL ANALYSIS, ...'. THESE TERMS ARE SPECIFIED BY THE ADDITIVES. FOR NEW METHODS 'DATA ANALYSIS METHOD' IS USED)
-FIXED POINT (SEE 'RENORMALIZATION GROUP' OR 'RENORMALIZATION GROUP, CALLAN-SYMANZIK EQUATIONS')
*FIXED POLE (MODEL, FIXED POLE)
*FIXED-ANGLE
-FIXED-T DISPERSION RELATIONS (DISPERSION RELATIONS)
*FLASH TUBE (SPARK CHAMBER, FLASH TUBE)
*FLAVOR (QUARK, FLAVOR)
*FLUID (ONLY USE FOR 'MODEL, FLUID', OTHERWISE USE 'LIQUID')
-FLUID ANALOGY (USE 'MODEL, FLUID')
FLUORINE
FLUX
-FNAL ('PROTON SYNCHROTRON'; FOR EXPERIMENTAL RESULTS SEE 'BATAVIA PS')
*FOLDY-WOUTHUYSEN (TRANSFORMATION, FOLDY-WOUTHUYSEN)
*FORBUSH (COSMIC RADIATION, FORBUSH)
FORCES
FORM FACTOR (IF APPROPRIATE, SPECIFIERS ARE ADDED (EXAMPLE: 'FORM FACTOR, MAGNETIC'); NO SPECIFIER IS USED FOR ELECTROMAGNETIC FORM FACTORS)
*FORMULA (SEE ALSO 'MASS FORMULA')
*FORWARD SCATTERING (USED ONLY FOR ZERO-DEGREE SCATTERING, OTHERWISE SEE '..., SMALL-ANGLE' OR '..., WIDE-ANGLE')
-FORWARD-BACKWARD SYMMETRY (USE 'ANGULAR DISTRIBUTION')
*FOUR-COMPONENT NEUTRINO (MODEL, FOUR-COMPONENT NEUTRINO)
*FOUR-FERMION INTERACTION (MODEL, FOUR-FERMION INTERACTION)
FOUR-PI-DETECTOR (RESTRICTED USE, FREQUENTLY USED FOR COLLIDING-BEAM DETECTORS)
*FRAGMENTATION ('BEAM, FRAGMENTATION' OR 'TARGET, FRAGMENTATION' OR, MORE GENERAL, 'MULTIPLE PRODUCTION, FRAGMENTATION')
FRANCIUM
*FRASCATI ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*FRASCATI STOR (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-FREDHOLM OPERATOR (NOT USED)
*FREON
-FREQUENCY GENERATION (SEE 'MICROWAVES')
-FREQUENCY MEASUREMENT (SEE 'MICROWAVES')
*FRIEDMAN (MODEL, FRIEDMAN)
-FRITZSCH-GELL-MANN (LIGHT CONE BEHAVIOR)
*FROISSART BOUND (HIGH ENERGY BEHAVIOR, FROISSART BOUND)
*FROISSART-GRIBOV (PARTIAL WAVE, FROISSART-GRIBOV)
*FUBINI-FURLAN (MODEL, FUBINI-FURLAN)
FUNCTIONAL ANALYSIS
FUNDAMENTAL CONSTANT
-FUNDAMENTAL LENGTH (FUNDAMENTAL CONSTANT, LENGTH)
FUSION
-F1 MESON RESONANCE (PI/RHO(1540))
-F1(1540) (PI/RHO(1540))

*G PARITY (QUANTUM NUMBER, G PARITY)
G(1680)
-G-2 (MAGNETIC MOMENT)
GADOLINIUM
-GALILEI GROUP (SEE 'GROUP THEORY')
GALLIUM
-GAMMA MONOCHROMATOR (PHOTON, MONOCHROMATIC BEAM)
-GAMMA SPECTROMETER (TOTAL-ABSORPTION COUNTER)
GAS (SEE ALSO 'MODEL, GAS')
-GAS ANALOG MODEL (USE 'MODEL, GAS')
-GASEOUS SCINTILLATORS (USE 'SCINTILLATION COUNTER, GAS')
*GATE (LINEAR GATE: 'ANALOG CIRCUIT', LOGIC GATE: 'DIGITAL LOGIC, GATE')
*GAUGE ('INVARIANCE, GAUGE' OR 'TRANSFORMATION, GAUGE'; SEE ALSO 'GAUGE FIELD THEORY')
GAUGE FIELD THEORY
*GEEL LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
GEIGER-MUELLER COUNTER
*GELL-MANN-LOW (RENORMALIZATION GROUP, GELL-MANN-LOW)
*GELL-MANN-OAKES-RENNER ('MODEL, GELL-MANN-OAKES-RENNER')
*GELL-MANN-OKUBO ('MODEL, GELL-MANN-OKUBO' OR 'MASS FORMULA, GELL-MANN-OKUBO')
-GELL-MANN-SHARP-WAGNER (COUPLING, PI-RHO(765)-OMEGA(784))
*GELL-MANN-ZWEIG (QUARK, GELL-MANN-ZWEIG)
*GENERAL (RELATIVITY THEORY, GENERAL)
-GENERALIZED VECTOR DOMINANCE (MODEL, VECTOR DOMINANCE)
*GEOMETRICAL (SCALING, GEOMETRICAL)
*GEORGI-GLASHOW (MODEL, GEORGI-GLASHOW)
GERMANIUM
-GERMANIUM DETECTOR (SEE 'SOLID-STATE COUNTER')
-GERMANIUM-LITHIUM COUNTER (SOLID-STATE COUNTER)
-GIANT RESONANCE (EXCITED NUCLEUS, COLLECTIVE PHENOMENA)
*GLASGOW LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*GLASHOW-ILIOPOULOS-MAIANI (MODEL, GLASHOW-ILIOPOULOS-MAIANI)
GLASS
*GLAUBER (MODEL, GLAUBER)
-GLAUBER-MARGOLIS MODEL (MODEL, GLAUBER)
*GLUON (MODEL, GLUON)
GOLD
-GOLDBERGER-TREIMAN RELATION ('MODEL, PCAC' AND 'PI, DECAY')
-GOLDSTONE BOSON (FIELD THEORY, GOLDSTONE THEOREM)
-GOLDSTONE MODEL (USE 'SYMMETRY, SPONTANEOUSLY BROKEN')
*GOLDSTONE THEOREM (FIELD THEORY, GOLDSTONE THEOREM)
*GRASSMANN (ALGEBRA, GRASSMANN)
GRAVITATION
-GRAVITATIONAL RADIATION (GRAVITATION, RADIATION)
-GRAVITATIONAL WAVES (GRAVIATION, RADIATION)
*GRAVITON (POSTULATED PARTICLE, GRAVITON)
-GREEN FUNCTION
*GRIBOV (MODEL, GRIBOV)
-GRIBOV-POMERANCHUK (PARTIAL WAVE, ANALYTIC PROPERTIES)
GROUP THEORY
-GUPTA-BLEULER (QUANTUM ELECTRODYNAMICS)

H H(2050)
HADRON
HADRON ANTI-K
HADRON ANTI-KO
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 DEUTERON
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, HADRON)
HADRON N
HADRON NUCLEON
HADRON NUCLEUS
HADRON OMEGA-
HADRON P
HADRON PI
HADRON PI+
HADRON PI-
HADRON PIO
HADRON QUARK
-HADRON RESONANCE ('MESON RESONANCE' AND 'BARYON RESONANCE')
HADRON SIGMA
HADRON SIGMA+
HADRON SIGMA-
HADRON SIGMAO
HADRON SPECTROSCOPY (NOT USED FOR APPARATUS)
HADRON VECTOR MESON
HADRON XI
HADRON XI-
HADRON XIO
*HADRONIC ATOM
*HADRONIC COMPONENT (COSMIC RADIATION, HADRONIC COMPONENT)
-HADRONIC DECAY (SEE 'NONLEPTONIC DECAY')
HAFNIUM
-HAGEDORN MODEL (MODEL, THERMODYNAMICAL)
-HAGEDORN-FRAUTSCHI (SEE 'BOOTSTRAP')
*HAN-NAMBU (USE 'QUARK, HAN-NAMBU')
*HARARI (MODEL, HARARI)
-HARARI-FREUND MODEL (SEE 'DUALITY')
-HARARI-RUBNER MODEL (SEE 'DUALITY')
*HARD CORE (MODEL, HARD CORE)
-HARD MESON (CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS)
-HARD PHOTON (RADIATIVE CORRECTION)
-HARD PION (CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS)
-HARD SCATTERING (SEE 'MODEL, PARTON' OR 'MODEL, CONSTITUENT INTERCHANGE')
-HARMONIC OSCILLATOR (MODEL, OSCILLATOR)
*HARTREE-FOCK ('APPROXIMATION, HARTREE-FOCK' FOR SELF-CONSISTENT CALCULATIONS IN QUANTUM MECHANICS)
HEALTH PHYSICS (SEE ALSO 'NUCLEAR MEDICINE' OR 'DOSIMETRY')
HEAT ENGINEERING
*HEAVY
*HEAVY ION (HEAVY-ION PHYSICS IS INCLUDED WHEN PARTICLE ENERGY IS >=100 MEV/NUCLEON. HEAVY-ION ACCELERATOR TECHNOLOGY IS GENERALLY INCLUDED)
HEAVY LEPTON
-HEAVY LEPTON ANTINEUTRINO (ANTINEUTRINO/L/)
-HEAVY LEPTON NEUTRINO (NEUTRINO/L/)
-HEAVY MESON (SEE 'PSI MESONS')
-HEAVY WATER (DEUTERON, WATER)
*HEISENBERG (FIELD THEORY, HEISENBERG)
HELICITY
HELIUM
-HIDDEN VARIABLES (QUANTUM MECHANICS)
*HIGGS (MODEL, HIGGS)
-HIGGS-KIBBLE (FIELD THEORETICAL 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.)
-HIGH SPIN (SPIN, HIGH)
*HIGH-Y ANOMALY ('NEUTRINO, INCLUSIVE REACTION', 'ANTINEUTRINO, INCLUSIVE REACTION' AND 'INCLUSIVE REACTION, HIGH-Y ANOMALY')
*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 (NOT USED)
HODOSCOPE
-HODOSCOPE CHAMBER (SEE 'SPARK CHAMBER, FLASH TUBE')
HOLMIUM
*HWA (MODEL, HWA)
-HYBRID MODEL ('MODEL, ABSORPTION' AND 'REGGE POLES')
HYBRID SYSTEM (USED ONLY WHEN 2 OR MORE CHAMBER TYPES ARE USED IN ONE DETECTOR; WHEN BUBBLE CHAMBERS ARE INVOLVED, ADD 'BUBBLE CHAMBER')
*HYDRODYNAMICAL (MODEL, HYDRODYNAMICAL)
HYDROGEN
*HYPERCHARGE ('QUANTUM NUMBER, HYPERCHARGE'. SEE ALSO 'STRANGENESS')
HYPERFINE STRUCTURE
HYPERFRAGMENT
-HYPERNUCLEUS (HYPERFRAGMENT)
HYPERON
HYPERON ANTIHYPERON
HYPERON BARYON RESONANCE
HYPERON DEUTERON
HYPERON HYPERON
HYPERON INTERMEDIATE BOSON
HYPERON LIGHT NUCLEUS
HYPERON NUCLEUS
HYPERON QUARK
HYPERON VECTOR MESON
*HYPERONIC ATOM

*IIZUKA-JKUBO-ZWEIG (SELECTION RULE, IIZUKA-OKUBO-ZWEIG)
*IMAGE INTENSIFIER
*IMPACT PARAMETER (MODEL, IMPACT PARAMETER)
*IMPULSE (APPROXIMATION, IMPULSE)
-IMPURITY (SEE 'ADMIXTURE')
INCLUSIVE REACTION
*INCOHERENT INTERACTION
*INCOHERENT PRODUCTION
*INDEPENDENT EMISSION (MODEL, INDEPENDENT EMISSION)
*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)
-INFRAPARTICLE (SEE 'FIELD THEORY, INFRARED PROBLEM' OR 'QUANTUM ELECTRODYNAMICS, INFRARED PROBLEM')
*INFRARED PROBLEM ('FIELD THEORY, INFRARED PROBLEM OR 'QUANTUM ELECTRODYNAMICS, INFRARED PROBLEM')
INJECTION
INORGANIC COMPOUNDS
-INSTABILITY (SEE 'BEAM INSTABILITY')
*INSTANTON (FIELD THEORY, INSTANTON)
-INTEGRAL REPRESENTATION (USE 'SPECTRAL REPRESENTATION')
-INTENSITY (SEE 'YIELD' OR 'FLUX')
*INTERACTION
INTERFACE (ALSO 'DIGITAL LOGIC, INTERFACE' OR 'ANALOG LOGIC, INTERFACE' OR 'COMPUTER, INTERFACE' OR 'INTERFACE, EXPERIMENTAL EQUIPMENT')
INTERFERENCE
INTERMEDIATE BOSON (ALSO 'MODEL, INTERMEDIATE BOSON')
-INTERMEDIATE NUCLEUS (USE 'EXCITED NUCLEUS')
-INTERMEDIATE STATE (SEE 'EXCHANGE' OR 'FINAL STATE' OR 'DECAY, CASCADE') I
*INTERNAL (SYMMETRY, INTERNAL)
-INTERNUCLEAR CASCADE (USE 'NUCLEUS, CASCADE')
*INTERPRETATION OF EXPERIMENTS
*INTRANUCLEAR CASCADE (MODEL, INTRANUCLEAR CASCADE)
*INTRODUCTORY (RESTRICTED USE)
INVARIANCE
-INVARIANT PHASE SPACE (MODEL, STATISTICAL)
IODINE
ION (SEE ALSO 'HEAVY ION')
-ION RING ACCELERATOR (ACCELERATOR, ELECTRON RING)
IONIZATION
-IONIZATION CALORIMETER ('IONIZATION CHAMBER' AND 'BEAM CALIBRATION'; SEE ALSO 'TOTAL-ABSORPTION COUNTER')
IONIZATION CHAMBER
-IONIZATION SPECTROMETER (SEE 'IONIZATION CHAMBER')
-IPS (MODEL, STATISTICAL)
IRIDIUM
IRON
*IRON BALL (AT SPEAR; 'MAGNETIC DETECTOR, IRON BALL')
*ISING (STATISTICAL MECHANICS, ISING)
*ISOBAR ('MODEL, ISOBAR'; FOR THE NUCLEON ISOBAR USE 'NUCLEON RESONANCE')
-ISOBAR ANALOG RESONANCE (SEE 'NUCLEAR PHYSICS')
*ISOCHRONOUS (CYCLOTRON, ISOCHRONOUS)
*ISOSCALAR
ISOSPIN
-ISOTOPE (NUCLIDE)
*ISOVECTOR
-ISR ('STORAGE RING, P P'; FOR EXPERIMENTAL RESULTS USE 'CERN STOR')

-J(3100) (USE 'J/PSI(3100)')
J/PSI(3100)
-JACOB-SLANSKY (MODEL, MULTIPLE PRODUCTION)
*JADE (PROPOSED FOR PETRA; 'MAGNETIC DETECTOR, JADE')
*JET (MODEL, JET)
*JIN-MARTIN BOUND (HIGH ENERGY BEHAVIOR, JIN-MARTIN BOUND)
-JOHNSON-BAKER-WILLEY (QUANTUM ELECTRODYNAMICS)
*JOHNSON-TREIMAN ('SYMMETRY, JOHNSON-TREIMAN' AND 'SYMMETRY, SU(6)')

*JOINT DECAY J
*JONA-LASINIO-NAMBU (MODEL, JONA-LASINIO-NAMBU)
*JOSEPHSON (EFFECT, JOSEPHSON)
-JOST FUNCTION (POTENTIAL SCATTERING)
-JOST-LEHMANN-DYSON REPRESENTATION (SPECTRAL REPRESENTATION)
-JWKB (USE 'APPROXIMATION, WKB')

K K
K ANTI-K
K ANTI-K0
K ANTI-N
K ANTI-P
K ANTIBARYON
K ANTILAMBDA
K ANTINUCLEON
K ANTISIGMA
K BARYON
K BARYON RESONANCE
K DEUTERON
K HYPERON
K INTERMEDIATE BOSON
K K
K K+
K K-
K K0
K LAMBDA
K LIGHT NUCLEUS
K MESON RESONANCE
K N
K NUCLEON
K NUCLEUS
K P
K QUARK
K SIGMA
K VECTOR MESON
-K(1240) (Q REGION)
-K(1280-1400) (Q REGION)
K(1420)
K+
K+ ANTI-N
K+ ANTI-P
K+ ANTIBARYON
K+ ANTINUCLEON
K+ BARYON
K+ BARYON RESONANCE
K+ DEUTERON
K+ HYPERON
K+ INTERMEDIATE BOSON
K+ K+
K+ K-
K+ LAMBDA
K+ LIGHT NUCLEUS
K+ MESON RESONANCE
K+ N
K+ NUCLEON
K+ NUCLEUS
K+ P
K+ QUARK
K+ SIGMA
K+ VECTOR MESON
-K* EXCHANGE (EXCHANGE, K*(892))
K*(1780)
K*(892)
K-
K- ANTI-N
K- ANTI-P
K- ANTIBARYON
K- ANTINUCLEON
K- BARYON
K- BARYON RESONANCE
K- DEUTERON
K- HYPERON
K- INTERMEDIATE BOSON
K- K-
K- LAMBDA
K- LIGHT NUCLEUS
K- MESON RESONANCE
K- N
K- NUCLEON
K- NUCLEUS
K- P
K- QUARK
K- VECTOR MESON
-KAELLEN-LEHMANN REPRESENTATION (SPECTRAL REPRESENTATION)
-KAPPA (SEE 'PI K' AND 'PARTIAL-WAVE ANALYSIS')
*KEK PS (AT TSUKUBA, JAPAN. ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*KHARKOV LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-KHURI REPRESENTATION (MODEL, REGGE POLES)
-KIBBLE-HIGGS (FIELD THEORETICAL MODEL, WEINBERG)
-KICKER MAGNET (PULSED MAGNET)
*KIKKAWA-SAKITA-VIRASORO (MODEL, KIKKAWA-SAKITA-VIRASORO)
-KINEMATIC SUPERSTRUCTURE (DUALITY)
KINEMATICS
-KINK SOLUTION (SEE 'FIELD THEORY, SOLITON')
*KLEIN-GORDON (FIELD EQUATIONS, KLEIN-GORDON)
-KLYSTRON (SEE 'RF SYSTEM')
*KNO (SCALING, KNO)
-KOBA-NIELSEN (MODEL, DUAL RESONANCE)
-KOBA-NIELSEN-OLESEN SCALING (SCALING, KNO)
-KOGUT-SUSSKIND (USE 'MODEL, PARTON')
-KROLL-RUDERMAN (FIELD THEORY, LOW-ENERGY THEOREM)
KRYPTON
-KUTI-WEISSKOPF (SEE 'MODEL, QUARK PARTON' AND 'SCALING' AND 'DEEP INELASTIC SCATTERING')
K0
K0 ANTI-N
K0 ANTI-P
K0 ANTIBARYON
K0 ANTINUCLEON
K0 BARYON
K0 BARYON RESONANCE
K0 DEUTERON
K0 INTERMEDIATE BOSON
K0 K+
K0 K-
K0 K0
K0 LAMBDA
K0 LIGHT NUCLEUS
K0 MESON RESONANCE
K0 N
K0 NUCLEON
K0 NUCLEUS
K0 P
K0 QUARK
K0 VECTOR MESON
K0(L)
*K0(L)-K0(S) (MASS DIFFERENCE, K0(L)-K0(S))
K0(S)

L(1770)
*LADDER (APPROXIMATION, LADDER)
-LAGRANGIAN MODEL (FIELD THEORY)
-LAMB SHIFT ('RADIATIVE CORRECTION' AND 'ATOM, ENERGY LEVELS'. POSSIBLY ALSO: 'QUANTUM ELECTRODYNAMICS, VALIDITY TEST')
LAMBDA
LAMBDA ANTILAMBDA
LAMBDA BARYON RESONANCE
LAMBDA DEUTERON
LAMBDA INTERMEDIATE BOSON
LAMBDA LAMBDA
LAMBDA LIGHT NUCLEUS
LAMBDA NUCLEUS
LAMBDA QUARK
LAMBDA SIGMA
LAMBDA VECTOR MESON
LAMBDA(1405)
LAMBDA(1815)
LAMBDA(1830)
LAMBDA(2100)
LAMBDA(2350)
LAMBDA(2585)
LAMBDA'(1520)
LAMBDA'(1670)
LAMBDA''(1690)
-LAMOTON (SEE 'HEAVY LEPTON' AND 'STRONG INTERACTION')
*LAMPF LINAC (AT LOS ALAMOS. ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-LANDAU MODEL (MODEL, HYDRODYNAMICAL)
LANTHANUM
*LASER (GENERALLY, 'OPTICS, LASER')
*LATTICE ('APPROXIMATION, LATTICE' IN FIELD THEORY. ALSO USED FOR ACCELERATOR LATTICES)
-LATTICE FIELD THEORY (SEE 'APPROXIMATION, LATTICE')
LAWRENCIUM
LEAD
-LEAD-GLASS COUNTER (SEE 'TOTAL-ABSORPTION COUNTER')
*LEADING PARTICLE (MULTIPLE PRODUCTION, LEADING PARTICLE)
-LEAST-SQUARES ANALYSIS (USE 'STATISTICAL ANALYSIS')
LECTURES
*LEE (FIELD THEORETICAL MODEL, LEE)
-LEFT-RIGHT SYMMETRY (SEE 'MULTIPLE PRODUCTION, CORRELATION')
-LEHMANN ELLIPSE (ANALYTIC PROPERTIES)
-LEHMANN-KAELLEN-UMEZAWA (SPECTRAL REPRESENTATION)
-LEHMANN-SYMANZIK-ZIMMERMANN FORMALISM (FIELD THEORY)
*LENGTH ('FUNDAMENTAL CONSTANT, LENGTH'; SEE ALSO 'SCATTERING LENGTH' OR 'RADIATION LENGTH')
*LENINGRAD IOFFE CYCL (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*LENINGRAD NUCL INST CYCL (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
LEPTON
LEPTON ANTI-K0
LEPTON ANTI-N
LEPTON ANTI-P
LEPTON ANTIBARYON
LEPTON ANTIHYPERON
LEPTON ANTILAMBDA
LEPTON ANTILEPTON
LEPTON ANTINEUTRINO
LEPTON ANTINUCLEON
LEPTON ANTISIGMA
LEPTON ANTIXI
LEPTON BARYON
LEPTON BARYON RESONANCE
LEPTON BOSON
LEPTON DEUTERON
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
-LEPTONIC NUMBER (USUALLY 'CONSERVATION LAW, LEPTON'; SEE ALSO 'QUANTUM NUMBER, LEPTON')
-LEPTONIC QUARK (LEPTON, QUARK)
LEPTOPRODUCTION
-LEVEL CONVERTER (DIGITAL LOGIC)
-LEXAN (USE 'PLASTICS, TRACK SENSITIVE')
*LIE ('GROUP THEORY, LIE' OR 'ALGEBRA, LIE')
LIFETIME (USAGE IN ACCORDANCE WITH ROSENFELD TABLES)
-LIGHT CONE ALGEBRA (LIGHT CONE BEHAVIOR)
LIGHT CONE BEHAVIOR
LIGHT NUCLEUS (UP TO MASS NUMBER 20)
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)
*LINEAR SPACES (FUNCTIONAL ANALYSIS, LINEAR SPACES)
-LIPPMANN-SCHWINGER EQUATION (QUANTUM MECHANICS, SCATTERING)
-LIPPMANN-SCHWINGER-ZIMMERMANN FORMALISM (AXIOMATIC FIELD THEORY)
LIQUID
-LIQUID ANALOGY MODEL (USE 'MODEL, FLUID')
LIQUID ARGON DETECTOR
LITHIUM
-LOCALITY (AXIOMATIC FIELD THEORY)
-LOCALIZATION (AXIOMATIC FIELD THEORY)
-LOCATION DETECTION (SEE 'POSITION SENSITIVE' OR 'TRACK MEASURING')
-LOGIC (IF DIGITAL, 'DIGITAL LOGIC', IF IN NANOSECOND RANGE, 'FAST LOGIC')
-LOGIC GATE (DIGITAL LOGIC)
*LONG-RANGE (USE ONLY AS 'CORRELATION, LONG-RANGE'. DO NOT USE FOR LONG-RANGE FORCES)
*LONGITUDINAL (RESTRICTED USE, SEE ALSO 'LONGITUDINAL MOMENTUM')
-LONGITUDINAL BEAM OSCILLATION (SYNCHROTRON OSCILLATION)
LONGITUDINAL MOMENTUM
*LONGITUDINAL PHASE SPACE (MULTIDIMENSIONAL ANALYSIS, LONGITUDINAL PHASE SPACE)
-LOOP DIAGRAM ('FIELD THEORY, HIGHER-ORDER' OR 'DUAL FIELD THEORY, HIGHER-ORDER')
*LORENTZ ('GROUP THEORY, LORENTZ' (RESTRICTED USE) OR 'INVARIANCE, LORENTZ' (RESTRICTED USE) OR 'TRANSFORMATION, LORENTZ')
*LOW (MOMENTUM TRANSFER, LOW)
LOW TEMPERATURE
*LOW-ENERGY THEOREM (FIELD THEORY, LOW-ENERGY THEOREM)
-LPS ANALYSIS ('MULTIPLE PRODUCTION, LONGITUDINAL PHASE SPACE' OR 'MULTIDIMENSIONAL ANALYSIS, LONGITUDINAL PHASE SPACE')
-LSZ FORMALISM (FIELD THEORY)
LUMINOSITY
*LUND ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
LUTETIUM

M *M I T LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
MAGNESIUM
MAGNET
*MAGNETIC (SEE ALSO 'MAGNETIC FIELD' OR 'MAGNETIC MOMENT' OR 'POSTULATED PARTICLE, MAGNETIC MONOPOLE' OR 'MAGNETIC SPECTROMETER' OR 'MAGNETIC DETECTOR')
MAGNETIC DETECTOR (OFTEN USED CONNECTED WITH THE NAME OF THE DETECTOR. IN CASE OF LARGE-ANGLE DETECTORS SEE ALSO APPROPRIATE KEYWORDS FOR CHAMBERS AND ADD 'MAGNETIC FIELD'. FOR SMALL-ANGLE DETECTORS SEE ALSO 'MAGNETIC SPECTROMETER')
MAGNETIC FIELD (ALSO FOR STORAGE-RING EXPERIMENTS WHEN APPLICABLE)
MAGNETIC MOMENT
*MAGNETIC MONOPOLE (POSTULATED PARTICLE, MAGNETIC MONOPOLE)
MAGNETIC SPECTROMETER (SEE ALSO 'MAGNETIC DETECTOR')
*MAGNETOSTRICTIVE (SPARK CHAMBER, MAGNETOSTRICTIVE)
MANDELSTAM REPRESENTATION
MANGANESE
MANUAL
MANY-BODY PROBLEM
*MANY-BOSON (EXCHANGE, MANY-BOSON)
*MARK I (AT SPEAR; 'MAGNETIC DETECTOR, MARK I')
*MARK II (AT SPEAR; 'MAGNETIC DETECTOR, MARK II')
MASS
MASS DIFFERENCE
MASS ENHANCEMENT
MASS FORMULA
*MASS NUMBER
-MASS RATIO ('MASS, RATIO'. INCLUDES ALSO EFFECTIVE-MASS SPECTRA)
-MASS SPECTROMETER (SEE 'MAGNETIC SPECTROMETER')
MASS SPECTRUM (RESTRICTED USE)
-MASS SPLITTING (MASS DIFFERENCE)
-MASS-ZERO PIONS (PI, MASSLESS)
*MASSIVE
*MASSLESS
-MATERIALS (SEE MORE SPECIFIC TERMS)
MATHEMATICAL METHODS
MATHEMATICS
MATTER
-MAXIMUM-LIKELIHOOD METHOD (USE 'STATISTICAL ANALYSIS')
MEASUREMENT
MECHANICAL ENGINEERING
MECHANICS
-MEDICINE (SEE 'HEALTH PHYSICS' OR 'NUCLEAR MEDICINE')
-MELLIN TRANSFORMATION (TRANSFORMATION)
*MELOSH (TRANSFORMATION, MELOSH)
-MEMORY (COMPUTER)
MENDELEVIUM
MERCURY
*MESIC ATOM
-MESIC MOLECULE (MOLECULE, MESIC ATOM)
MESON (ALSO 'MODEL, MESON')
MESON ANTI-K
MESON ANTI-K0
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 DEUTERON
*MESON DOMINANCE ('MODEL, MESON DOMINANCE'. USED FOR SCALAR, PSEUDOSCALAR AND TENSOR MESONS)
-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 DEUTERON
-MESON RESONANCE FORMATION (USE 'MESON RESONANCE, SCATTERING')
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 XI0
MESON SIGMA
MESON SIGMA+
MESON SIGMA-
MESON SIGMA0
MESON VECTOR MESON
MESON XI
MESON XI-
MESON XI0
METAL
-MICA DETECTOR (USE 'MINERAL, TRACK SENSITIVE')
-MICROCAUSALITY (AXIOMATIC FIELD THEORY, CAUSALITY)
-MICROCOMPUTER (SEE 'MICROPROCESSOR')
MICROPROCESSOR
-MICROTRON (CYCLOTRON, ELECTRON)
MICROWAVES
MINERAL
*MISSING-MASS
-MISSING-MASS SPECTROMETER (MAGNETIC SPECTROMETER)
-MIXING ('INTERFERENCE' (RESTRICTED USE))
*MIXING ANGLE (MULTIPLET, MIXING ANGLE)
MODEL (VERY RESTRICTED USE WITHOUT SECOND TERM)
-MODELS OF FIELD THEORY (FIELD THEORETICAL MODEL)
-MOEBIUS TRANSFORMATION (TRANSFORMATION)
-MOELLER SCATTERING (USE 'ELECTRON ELECTRON, ELASTIC SCATTERING' OR 'POSITRON POSITRON, ELASTIC SCATTERING')
MOLECULAR BIOLOGY
*MOLECULE
MOLYBDENUM
MOMENT
MOMENTUM
MOMENTUM SPECTRUM
MOMENTUM TRANSFER
MONITORING (SEE ALSO 'BEAM MONITORING')
*MONOCHROMATIC BEAM (PHOTON, MONOCHROMATIC BEAM)
*MONTE CARLO (NUMERICAL CALCULATIONS, MONTE CARLO)
*MOSCOW ITEF PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*MOSCOW LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*MOSCOW RI PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*MUELLER (MODEL, MUELLER)
*MULTI-REGGE (REGGE POLES, MULTI-REGGE)
-MULTICHANNEL ANALYZER (SEE 'ANALOG-TO-DIGITAL CONVERTER')
MULTIDIMENSIONAL ANALYSIS
-MULTILOOP ('FIELD THEORY, HIGHER-ORDER' OR 'DUAL FIELD THEORY, HIGHER-ORDER')
*MULTIMESON (EXCHANGE, MULTIMESON)
*MULTIPERIPHERAL (MODEL, MULTIPERIPHERAL)
*MULTIPHOTON ('EXCHANGE, MULTIPHOTON' AND 'PERTURBATION THEORY')

*MULTIPION (EXCHANGE, MULTIPION)
*MULTIPLE
MULTIPLE PRODUCTION
MULTIPLE SCATTERING
MULTIPLET
MULTIPLICITY
*MULTIPLY CHARGED
*MULTIPOLE (PARTIAL-WAVE ANALYSIS, MULTIPOLE)
-MULTIPOMERON (USE 'POMERON')
-MULTIREGGEON (SEE 'REGGE POLES, MULTI-REGGE' OR 'EXCHANGE, MULTI-REGGE')
-MULTIWIRE PROPORTIONAL CHAMBER (USE 'PROPORTIONAL CHAMBER')
MUON
MUON ANTI-K0
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 DEUTERON
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 (FOR THE INTERACTION USE 'NEUTRINO'; FOR THE PARTICLE USE 'NEUTRINO/MU/')
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-K0
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+ DEUTERON
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-K0
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- DEUTERON
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
*MUONIUM
-MUOPRODUCTION (USE 'ELECTROPRODUCTION')
-MWPC (USE 'PROPORTIONAL CHAMBER')

N N (DENOMINATES NEUTRON; FOR NUCLEON USE 'NUCLEON')
N ANTI-N
N ANTIHYPERON
N ANTILAMBDA
N ANTISIGMA
N ANTIXI
N BARYON RESONANCE
N DEUTERON
N HYPERON
N INTERMEDIATE BOSON
N LAMBDA
N LIGHT NUCLEUS
N N
N NUCLEUS
N OMEGA-
-N P (USE 'P N, ...' AND 'N, BEAM')
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* (SEE 'NUCLEON RESONANCE' FOR I=1/2)
-N-PION EXCHANGE (EXCHANGE, MULTIPION)
*N-POINT FUNCTION ('DUALITY, 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)
-NAKANISHI REPRESENTATION (SPECTRAL REPRESENTATION)
-NAMBU (FIELD THEORETICAL MODEL)
-NAMBU-GOLDSTONE (USE 'SYMMETRY, SPONTANEOUSLY BROKEN')
-NANOSECOND ELECTRONICS (FAST LOGIC)
*NARROW RESONANCE ('APPROXIMATION, NARROW RESONANCE'; SEE ALSO 'PSI MESONS' OR MORE SPECIFIC PARTICLES)
NEGATIVE PARTICLE
NEODYMIUM
NEON
NEPTUNIUM
-NEUTRAL (SEE 'NEUTRAL CURRENT' OR 'NEUTRAL PARTICLE')
NEUTRAL CURRENT
NEUTRAL PARTICLE
-NEUTRAL WEAK CURRENT (NEUTRAL CURRENT, WEAK CURRENT)
-NEUTRALS (USE 'NEUTRAL PARTICLE')
NEUTRINO
NEUTRINO ANTI-K0
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 DEUTERON
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
NEUTRINO/E/
NEUTRINO/L/
NEUTRINO/MU/
*NEUTRINOPRODUCTION (USED FOR PRODUCTION BY NEUTRINOS OR ANTINEUTRINOS)
-NEUTRON (USE 'N')
-NEUTRON DETECTION (PARTICLE IDENTIFICATION, N)
-NEVEU-SCHWARZ MODEL (MODEL, DUAL RESONANCE)
*NEW ELEMENT (ELEMENT, NEW ELEMENT)
*NEW INTERACTION ('MODEL, NEW INTERACTION', VERY RESTRICTED USE)
NEW PARTICLE
NICKEL
*NIMROD PS (AT CHILTON, ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*NINA ES (AT DARESBURY, ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
NIOBIUM
NITROGEN
*NIU (POSTULATED PARTICLE, NIU)
NOBELIUM
-NOETHER'S THEOREM ('GROUP THEORY' AND 'CONSERVATION LAW')
*NONABELIAN ('FIELD THEORY, NONABELIAN'; NOT USED TOGETHER WITH 'FIELD THEORETICAL MODEL, YANG-MILLS')
*NONDIFFRACTIVE
*NONLEPTONIC DECAY (NOT USED FOR RADIATIVE DECAYS)
*NONLINEAR
*NONLOCAL (SEE 'FIELD THEORY, NONLOCAL')
*NONPOLYNOMIAL (FIELD THEORETICAL MODEL, NONPOLYNOMIAL)
NONRELATIVISTIC
*NONRENORMALIZABLE (FIELD THEORETICAL MODEL, NONRENORMALIZABLE)
*NONSTRANGE (RESONANCE, NONSTRANGE)
-NORMAL PRODUCT (NOT USED)
*NOVA (MODEL, NOVA)
*NOVOSIBIRSK NAP STOR (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*NOVOSIBIRSK STOR2 (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*NOVOSIBIRSK STOR3 (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*NOVOSIBIRSK STOR4 (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-NUCLEAR CASCADE (NUCLEUS, CASCADE)
NUCLEAR EMULSION
-NUCLEAR EMULSION CHAMBER (USE 'NUCLEAR EMULSION' AND POSSIBLY 'TOTAL-ABSORPTION COUNTER')
NUCLEAR ENGINEERING
NUCLEAR FORCE
-NUCLEAR MATTER (USE 'MATTER')
NUCLEAR MEDICINE
NUCLEAR MODEL ((RESTRICTED USE) NUCLEAR-MODEL PAPERS ARE NOT GENERALLY INCLUDED)
NUCLEAR PHYSICS
NUCLEAR PROPERTIES
NUCLEAR REACTION
-NUCLEAR RESONANCE (SEE 'EXCITED NUCLEUS')
-NUCLEAR STRUCTURE (SEE 'NUCLEAR PROPERTIES' OR 'NUCLEAR MODEL')
NUCLEON
NUCLEON ANTI-N
NUCLEON ANTI-P
NUCLEON ANTIHYPERON
NUCLEON ANTILAMBDA
NUCLEON ANTINUCLEON
NUCLEON ANTISIGMA
NUCLEON ANTIXI
NUCLEON BARYON RESONANCE
NUCLEON DEUTERON

NUCLEON HYPERON
NUCLEON INTERMEDIATE BOSON
-NUCLEON ISOBAR (NUCLEON RESONANCE)
*NUCLEON J/PSI(3100)
NUCLEON LAMBDA
NUCLEON LIGHT NUCLEUS
NUCLEON N
NUCLEON NUCLEON
NUCLEON NUCLEUS
NUCLEON OMEGA-
NUCLEON P
NUCLEON QUARK
NUCLEON RESONANCE
-NUCLEON RESONANCE FORMATION (USE 'NUCLEON RESONANCE, SCATTERING')
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 ANALYSIS (NUMERICAL CALCULATIONS, INTERPRETATION OF EXPERIMENTS)
*NUMERICAL CALCULATIONS (GENERALLY ACCOMPANIED BY SPECIFICATION; THE COMBINATION 'INTERPRETATION OF EXPERIMENTS, NUMERICAL CALCULATIONS' IS USED FOR NUMERICAL ANALYSES)
NUMERICAL MATHEMATICS

*O(N) (SYMMETRY, O(N))
*O(3) (SYMMETRY, O(3))
*O(3,1) (SYMMETRY, O(3,1))
*O(4) (SYMMETRY, O(4))
*O(4,2) (SYMMETRY, O(4,2))
*OAK RIDGE LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-OBEC (EXCHANGE, ONE-BOSON)
*OCTET (QUARK, OCTET)
*OCTET DOMINANCE (MODEL, OCTET DOMINANCE)
-OCTUPOLE LENS (QUADRUPOLE LENS, SPECIAL FOCUSING')
*OFF-LINE (TRACK DATA ANALYSIS, OFF-LINE)
-OFF-MASS-SHELL (MODEL, OFF-SHELL)
*OFF-SHELL (MODEL, OFF-SHELL)
-OKUBO-ZWEIG RULE (USE 'SELECTION RULE, IIZUKA-OKUBO-ZWEIG')
-OKUBO-ZWEIG-IIZUKA RULE (USE 'SELECTION RULE, IIZUKA-OKUBO-ZWEIG')
*OMEGA (AT CERN: 'MAGNETIC DETECTOR, OMEGA')
-OMEGA SPECTROMETER (SEE 'MAGNETIC SPECTROMETER')
OMEGA(1675)
OMEGA(784)
*OMEGA(784)-PHI(1019) (INTERFERENCE, OMEGA(784)-PHI(1019))
OMEGA-
OMEGA- ANTIOMEGA-
OMEGA- BARYON RESONANCE
OMEGA- DEUTERON
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))
*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-LOOP APPROXIMATION ('FEYNMAN GRAPH, HIGHER-ORDER' OR 'DUAL FIELD THEORY, HIGHER-ORDER')
*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)
-OPACITY (SEE 'ABSORPTION' OR 'MODEL, OPTICAL')
-OPE (EXCHANGE, ONE-PION)
-OPE MODEL (EXCHANGE, ONE-PION)
*OPERATOR ALGEBRA ('FIELD THEORY, OPERATOR ALGEBRA' OR 'QUANTUM MECHANICS, OPERATOR ALGEBRA)
*OPERATOR PRODUCT (FIELD THEORY, OPERATOR PRODUCT)
-OPERATOR PRODUCT EXPANSION (FIELD THEORY, OPERATOR PRODUCT)
*OPTICAL (MODEL, OPTICAL)
*OPTICAL THEOREM (TOTAL CROSS SECTION, OPTICAL THEOREM)
OPTICS
ORBIT
-ORBIT CALCULATIONS (SEE 'BEAM OPTICS' AND 'ORBIT')
ORGANIC COMPOUNDS
*ORSAY LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*ORSAY STOR (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*OSCILLATION (NEUTRINO, OSCILLATION)
*OSCILLATOR (MODEL, OSCILLATOR)
OSMIUM
-OVERLAP FUNCTION (DO NOT USE 'OVERLAPPING RESONANCES')
*OVERLAPPING RESONANCES (MODEL, OVERLAPPING RESONANCES)
OXYGEN

P P
P ANTI-N
P ANTIHYPERON
P ANTILAMBDA
P ANTISIGMA
P ANTIXI
P BARYON RESONANCE
P DEUTERON
P HYPERON
P INTERMEDIATE BOSON
-P INVARIANCE (INVARIANCE, PARITY)
P LAMBDA
P LIGHT NUCLEUS
P N
-P NUCLEON (USE 'NUCLEON P')
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
-PARACHARMONIUM (SEE 'CHARMONIUM')
*PARAMETRIZATION (FOR FUNCTIONAL FITS USE
'INTERPRETATION OF EXPERIMENTS, PARAMETRIZATION'
OR 'NUMERICAL MATHEMATICS, PARAMETRIZATION' OR
'STATISTICAL ANALYSIS, PARAMETRIZATION')
*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 ANTIPARTICLE
PARTICLE IDENTIFICATION
-PARTICLE MODELS ('MODEL, PARTICLE' (RESTRICTED
USE) OR 'MODEL, FERMION' OR 'MODEL, BARYON' OR
'MODEL, BOSON' OR 'MODEL, MESON' OR 'MODEL,
PHOTON' OR 'MODEL, HADRON')
*PARTICLE NUCLEUS
PARTICLE SEPARATOR
PARTICLE SOURCE
-PARTICLE-HOLE MODEL (NUCLEAR PROPERTIES)
*PARTON ('MODEL, PARTON', SEE ALSO 'MODEL, QUARK
PARTON')
*PATH INTEGRAL (SEE 'FIELD THEORY, PATH INTEGRAL'
OR 'PERTURBATION THEORY, PATH INTEGRAL')
-PATH LENGTH (SEE 'ABSORPTION')
-PATTERN RECOGNITION (USE 'TRACK DATA ANALYSIS,
ON-LINE' OR 'TRACK DATA ANALYSIS, OFF-LINE')
PC(3510)
*PCAC (MODEL, PCAC)
*PCVC (MODEL, PCVC)
*PERIPHERAL (MODEL, PERIPHERAL)
PERTURBATION THEORY
-PEYROU PLOT ('TRANSVERSE MOMENTUM' AND
'LONGITUDINAL MOMENTUM')
-PHASE SHIFT (PARTIAL WAVE)
*PHASE SPACE ('KINEMATICS, PHASE SPACE' OR
'STATISTICAL ANALYSIS, PHASE SPACE')
-PHASE TRANSITION (SEE 'FIELD THEORY, CRITICAL
PHENOMENA')
-PHENOMENOLOGY (NOT USED)
PHI(1019)
-PHI(1650) (OMEGA(1675))
-PHI-TO-THE-NTH MODEL (FIELD THEORETICAL MODEL,
SCALAR)
PHOSPHORUS
-PHOTOABSORPTION (PHOTON, ABSORPTION)
-PHOTODISINTEGRATION (USE 'PHOTOFISSION')
-PHOTOEXCITATION (SEE 'PHOTON, ABSORPTION' AND
'EXCITED NUCLEUS')
PHOTOFISSION
-PHOTOMULTIPLIER (GENERALLY NOT INCLUDED, SEE
'SCINTILLATION COUNTER')
PHOTON (ALSO 'MODEL, PHOTON')
PHOTON ANTI-K0
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 DEUTERON
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 SPECTROMETER (SEE 'TOTAL-ABSORPTION
COUNTER')
-PHOTON SPLITTING (ELECTROMAGNETIC INTERACTION,
HIGHER-ORDER)
PHOTON VECTOR MESON
PHOTON XI
PHOTON XI-
PHOTON XI0
PHOTOPRODUCTION (FOR Q-SQUARED UNEQUAL 0, USE
'ELECTROPRODUCTION')
PI
PI ANTI-K0
PI ANTI-N
PI ANTI-P
PI ANTIBARYON
PI ANTIHYPERON
PI ANTILAMBDA
PI ANTINUCLEON
PI ANTISIGMA
PI ANTIXI
PI BARYON
PI BARYON RESONANCE
PI DEUTERON
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(1640) (A3(1640))
-PI(975) (DELTA(970))
PI+
PI+ ANTI-K0
PI+ ANTI-N
PI+ ANTI-P
PI+ ANTIBARYON
PI+ ANTIHYPERON
PI+ ANTILAMBDA
PI+ ANTINUCLEON
PI+ ANTISIGMA
PI+ ANTIXI
PI+ BARYON
PI+ BARYON RESONANCE
PI+ DEUTERON
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-K0
PI- ANTI-N
PI- ANTI-P
PI- ANTIBARYON
PI- ANTIHYPERON
PI- ANTILAMBDA
PI- ANTINUCLEON
PI- ANTISIGMA
PI- ANTIXI
PI- BARYON
PI- BARYON RESONANCE
PI- DEUTERON
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(765)-OMEGA(784) (COUPLING, PI-RHO(765)-OMEGA(784))
PI/RHO(1540)
-PION EXCHANGE ('EXCHANGE, ONE-PION' OR 'EXCHANGE, MULTIPION')
-PIONIC DECAY (USE 'NONLEPTONIC DECAY')
*PIONIZATION (MULTIPLE PRODUCTION, PIONIZATION)
PI0
PI0 ANTI-K0
PI0 ANTI-N
PI0 ANTI-P
PI0 ANTIBARYON
PI0 ANTIHYPERON
PI0 ANTILAMBDA
PI0 ANTINUCLEON
PI0 ANTISIGMA
PI0 ANTIXI
PI0 BARYON
PI0 BARYON RESONANCE
PI0 DEUTERON
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 (FEYNMAN GRAPH, PLANAR)
PLASMA
-PLASTIC TRACK DETECTOR (SEE 'PLASTICS, TRACK SENSITIVE')
PLASTICS
PLATINUM
-PLOTTING METHODS (SEE 'DATA ANALYSIS METHOD' (RESTRICTED USE) OR 'MULTIDIMENSIONAL ANALYSIS, PRISM PLOT' OR 'STATISTICAL ANALYSIS')
*PLUTO (AT DORIS AND PETRA; 'MAGNETIC DETECTOR, PLUTO')
PLUTONIUM
-POINCARE GROUP (GROUP THEORY, LORENTZ)
*POKORSKI-SATZ-SCHILLING (MODEL, POKORSKI-SATZ-SCHILLING)
*POLARIZABILITY
POLARIZATION
*POLARIZED BEAM
*POLARIZED TARGET
*POLE (APPROXIMATION, POLE)
-POLE DOMINANCE ('MODEL, POLE' OR 'MODEL, RESONANCE')
POLONIUM
*POMERANCHUK THEOREM (TOTAL CROSS SECTION, POMERANCHUK THEOREM)
POMERON (ALSO 'POMERON, MULTI-REGGE')
-POMERON COUPLING (POMERON, COUPLING)
-POMERON EXCHANGE (POMERON, EXCHANGE)
-POMERON-POMERON COUPLING (POMERON, COUPLING)
-POMERON-POMERON-POMERON COUPLING (POMERON, COUPLING)
*POSITION SENSITIVE (COUNTERS AND DETECTORS, POSITION SENSITIVE)
POSITIVE PARTICLE
-POSITIVITY (SEE 'AXIOMATIC FIELD THEORY')
POSITRON
POSITRON ANTI-K0
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 DEUTERON
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

P
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
POSTULATED PARTICLE
POTASSIUM
POTENTIAL
-POTENTIAL MODEL (POTENTIAL SCATTERING)
POTENTIAL SCATTERING
POWER ENGINEERING
POWER SUPPLY
PRASEODYMIUM
-PREDICTION (PROPOSED EXPERIMENT, NUMERICAL CALCULATIONS)
PREPROCESSING (SEE ALSO 'DIGITAL LOGIC, READOUT' OR 'MICROPROCESSOR, PREPROCESSING' OR 'DIGITAL LOGIC, PREPROCESSING')
*PRESSURE
*PRIMAKOFF (EFFECT, PRIMAKOFF)
*PRIMARY (USE IN 'COSMIC RADIATION, PRIMARY')
-PRIMEVAL FIREBALL (ASTROPHYSICS)
*PRINCETON PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*PRISM PLOT (MULTIDIMENSIONAL ANALYSIS, PRISM PLOT)
-PROBABILITY (STATISTICS)
-PROCESS CONTROL COMPUTER (COMPUTER, CONTROL SYSTEM)
*PRODUCTION
-PRODUCTION CROSS SECTION ('PRODUCTION' AND (GENERALLY) 'TOTAL CROSS SECTION')
PROGRAMMING
-PROJECT ('EXPERIMENTAL EQUIPMENT, PROPOSED' OR 'ACCELERATOR, PROPOSED')
PROMETHIUM
-PROMPT PARTICLE (USE 'DIRECT PRODUCTION')
PROPAGATOR
PROPORTIONAL CHAMBER
PROPORTIONAL COUNTER
-PROPORTIONAL WIRE CHAMBER (PROPORTIONAL CHAMBER)
*PROPOSED ('EXPERIMENTAL EQUIPMENT, PROPOSED' OR 'ACCELERATOR, PROPOSED')
PROPOSED EXPERIMENT
PROTACTINIUM
PROTON SYNCHROTRON
*PSEUDOSCALAR (RESTRICTED USE)
PSEUDOSCALAR MESON
-PSEUDOSCALAR MESON DOMINANCE (MODEL, MESON DOMINANCE)
*PSEUDOVECTOR ((RESTRICTED USE) WHEN 'PSEUDOVECTOR' AND 'VECTOR MESON' APPLICABLE, USE 'VECTOR MESON' ONLY)
PSI MESONS (RESTRICTED TO THEORETICAL PAPERS ON PSI SPECTROSCOPY)
-PSI(3100) (USE 'J/PSI(3100)')
PSI(3700)
PSI(3950) STRUCTURE
PSI(4100) STRUCTURE
PSI(4400)
-PULSE ANALYZER (ANALOG-TO-DIGITAL CONVERTER)
-PULSE GENERATOR (NOT INCLUDED)
-PULSE LIMITER (FAST LOGIC)
-PULSE SHAPER (FAST LOGIC)
-PULSE SPECTROMETER ('MAGNETIC SPECTROMETER' AND 'FAST LOGIC, COINCIDENCE' OR 'SPARK CHAMBER')
-PULSE-HEIGHT ANALYZER (ANALOG-TO-DIGITAL CONVERTER)
PULSED MAGNET

Q
Q REGION
-QC/2 SPECTROMETER (MAGNETIC SPECTROMETER)
QUADRUPOLE LENS
-QUANTAMETER (SEE 'IONIZATION CHAMBER' AND 'BEAM MONITORING')
QUANTIZATION
QUANTUM CHROMODYNAMICS
QUANTUM ELECTRODYNAMICS
-QUANTUM FIELD THEORY (USE 'FIELD THEORY')
QUANTUM MECHANICS
QUANTUM NUMBER
QUARK
QUARK ANTIQUARK
QUARK INTERMEDIATE BOSON
-QUARK MODEL (QUARK)
*QUARK PARTON (MODEL, QUARK PARTON)
QUARK QUARK
-QUARK SEARCH ('SEARCH FOR, QUARK', ONLY FOR EXPERIMENTAL SEARCHES FOR QUARKS)
-QUARK-GLUON (SEE 'QUARK, GLUON' OR 'FIELD THEORY, ASYMPTOTIC FREEDOM')
*QUARTET (QUARK, QUARTET)
*QUASICLASSICAL (APPROXIMATION, QUASICLASSICAL)
-QUASIELASTIC SCATTERING (USE 'ELASTIC SCATTERING')
*QUASIPOTENTIAL (MODEL, QUASIPOTENTIAL)
*QUINTET (QUARK, QUINTET)
Q1(1300)
Q2(1400)

RADIATION
-RADIATION DETECTOR (NOT USED. SEE MORE SPECIFIC KEYWORDS)
-RADIATION DOSE (SEE 'DOSIMETRY')
-RADIATION EFFECT (SEE 'RADIATION, EFFECT')
RADIATION LENGTH
-RADIATION PROTECTION (SEE 'ABSORPTION' OR 'ENERGY LOSS' OR 'SHIELDING' OR 'HEALTH PHYSICS' OR 'DOSIMETRY')
*RADIATIVE CAPTURE
RADIATIVE CORRECTION (FOR ELECTRON SCATTERING ONLY. IN OTHER CASES SEE 'FEYNMAN GRAPH')
*RADIATIVE DECAY (SEE ALSO 'ELECTROMAGNETIC DECAY')
RADIOACTIVITY
-RADIOCHEMISTRY ('RADIOACTIVITY' AND 'CHEMISTRY')
RADIUM
RADON
-RANGE TELESCOPE (SEE 'SCINTILLATION COUNTER' AND 'ENERGY LOSS' AND 'FAST LOGIC, COINCIDENCE')
-RANGE-ENERGY RELATION (USE 'ENERGY LOSS')
-RAPID CYCLING BUBBLE CHAMBER (USE 'BUBBLE CHAMBER')
*RAPIDITY
*RARITA-SCHWINGER (FIELD EQUATIONS, RARITA-SCHWINGER)
*RATIO (SEE 'TOTAL CROSS SECTION, RATIO' OR 'WIDTH, RATIO' OR 'MASS, RATIO')
-REACTION AMPLITUDE (SEE 'SCATTERING AMPLITUDE' (RESTRICTED USE), ONLY IN CASES OF CENTRAL IMPORTANCE)
-REACTION MECHANISM (USE MORE SPECIFIC TERM)
*READOUT (DIGITAL LOGIC, READOUT)
-REAL TIME (SEE 'CONTROL SYSTEM' AND 'COMPUTER, ON-LINE')
RECOIL
*REFLECTION
*REGENERATION (KO, REGENERATION)
REGGE CUT ('MODEL, REGGE CUT'; ONLY FOR PAPERS TREATING MODELS)
REGGE POLES
-REGGE TRAJECTORIES (SEE 'REGGE POLES')
-REGGEON (SEE 'REGGE POLES' OR 'REGGE POLES, REGGEON FIELD THEORY')
*REGGEON FIELD THEORY (REGGE POLES, REGGEON FIELD THEORY)
*REGGEON-PARTICLE (SEE 'SCATTERING, REGGEON-PARTICLE' OR 'COUPLING, REGGEON-PARTICLE')
*REGULARIZATION (RENORMALIZATION, REGULARIZATION)
*RELATIVISTIC
-RELATIVISTIC QUANTUM MECHANICS (QUANTUM MECHANICS, RELATIVISTIC)
RELATIVITY THEORY
*RENORMALIZABLE (FIELD THEORETICAL MODEL, RENORMALIZABLE)
RENORMALIZATION
RENORMALIZATION GROUP
-REPRESENTATION (SEE 'GROUP THEORY' OR 'MANDELSTAM REPRESENTATION' OR 'SPECTRAL REPRESENTATION')
-REPRESENTATION THEORY (SEE 'GROUP THEORY')
-REPULSION
-REPULSIVE CORE
-RESCATTERING (SEE 'MULTIPLE SCATTERING')
-RESISTIVE-WALL EFFECT (SEE 'BEAM INSTABILITY' OR 'BEAM DYNAMICS')
*RESOLUTION (EXPERIMENTAL EQUIPMENT, RESOLUTION)
RESONANCE (RESTRICTED USE FOR 'MODEL, RESONANCE')
*RESONANCE DOMINANCE (MODEL, RESONANCE DOMINANCE)
-RESONANCE FORMATION (USE 'RESONANCE, SCATTERING')
-RESONANCE INTERACTION MODEL (MODEL, OVERLAPPING RESONANCES)
-RESONANCE MIXING (INTERFERENCE, RESONANCE)
*RESONANCE SCATTERING (MODEL, RESONANCE SCATTERING)
-RESONANCE SPECTROSCOPY ('HADRON SPECTROSCOPY' OR 'MULTIPLET')
REVIEW
-RF CAVITY (SEE 'RF SYSTEM')
-RF FIELD (SEE 'RF SYSTEM')
-RF SEPARATOR (USE 'PARTICLE SEPARATOR' AND POSSIBLY 'BEAM TRANSPORT')
RF SYSTEM
RHENIUM
-RHO DOMINANCE MODEL (MODEL, VECTOR DOMINANCE)
-RHO EXCHANGE (EXCHANGE, RHO(765))
-RHO(1600) (G(1680))
RHO(1710)
RHO(765)
RHO(765)+
RHO(765)-
*RHO(765)-OMEGA(784) (INTERFERENCE, RHO(765)-OMEGA(784))
RHO(765)0
-RHO-OMEGA (INTERFERENCE, RHO(765)-OMEGA(784))
RHO*(1600)
RHODIUM
-ROPER RESONANCE (N*(1470))
*ROSENBLUTH FORMULA ('EXCHANGE, ONE-PHOTON' AND E.G., 'ELECTRON P, ROSENBLUTH FORMULA')
-ROSS-STODOLSKY (RHO(765), PHOTOPRODUCTION)
*ROT (PROPOSED FOR PETRA; 'MAGNETIC DETECTOR, ROT')
-ROTATION
*ROTATIONAL (SYMMETRY, ROTATIONAL)
*ROTATIONAL STATE (MODEL, ROTATIONAL STATE)
*ROTATOR (MODEL, ROTATOR)
RUBBER
RUBIDIUM
RUTHENIUM

S
S(1930)
S*(1000)
S-MATRIX
-S-WAVE (PARTIAL WAVE)
*SACLAY LINAC
*SACLAY PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
SAFETY (FOR ASPECTS OTHER THAN NUCLEAR. SEE ALSO 'HEALTH PHYSICS' OR 'DOSIMETRY' OR 'SHIELDING')
*SAKATA (MODEL, SAKATA)
-SALAM-STRATHDEE (FIELD THEORY, SUPERSYMMETRY')
-SALAM-WEINBERG MODEL (FIELD THEORETICAL MODEL, WEINBERG)
SAMARIUM
-SANDWICH COUNTER (SEE, E.G., 'SCINTILLATION COUNTER, LEAD', OR E.G., 'CHERENKOV COUNTER, IRON')
*SASKATOON LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*SATELLITE (USED IN CONNECTION WITH COSMIC-RADIATION EXPERIMENTS)
-SAXON-WOODS ('POTENTIAL' OR 'POTENTIAL SCATTERING')
*SCALAR (RESTRICTED USE)
SCALAR MESON
-SCALAR MESON DOMINANCE (MODEL, MESON DOMINANCE)
-SCALE INVARIANCE (USE 'SCALING')
-SCALER (DIGITAL LOGIC)
SCALING (ALSO USED FOR SCALE INVARIANCE. FOR SCALING VIOLATION: 'SCALING, VIOLATION')
-SCALING VIOLATION (SCALING, VIOLATION)
SCANDIUM
-SCANNING (SEE 'TRACK MEASURING')
SCATTERING (RESTRICTED USE)
SCATTERING AMPLITUDE (RESTRICTED USE, ONLY FOR CASES OF CENTRAL IMPORTANCE; SEE ALSO S-MATRIX)
SCATTERING LENGTH
-SCC (CAMAC SYSTEM, CONTROLLER)
*SCHWINGER (FIELD THEORETICAL MODEL, SCHWINGER)
-SCHWINGER SOURCE THEORY (FIELD THEORY)
*SCHWINGER TERMS (CURRENT ALGEBRA, SCHWINGER TERMS)
SCINTILLATION COUNTER
-SCINTILLATOR (NOT INCLUDED IN SCOPE)
*SCREENING (EFFECT, SCREENING)
*SEAGULL (EFFECT, SEAGULL)
SEARCH FOR (ONLY FOR EXPERIMENTAL SEARCHES FOR POSTULATED PARTICLES)
-SECOND QUANTIZATION (FIELD THEORY, QUANTIZATION)
-SECOND-CLASS CURRENT (WEAK INTERACTION, CURRENT)
-SECONDARY PARTICLE
SECONDARY RADIATION
-SECONDARY-EMISSION MONITORING (BEAM MONITORING)
-SECTOR-FOCUSING CYCLOTRON (CYCLOTRON, ISOCHRONOUS)
-SECURITY (SEE 'SAFETY' OR 'HEALTH PHYSICS' OR 'DOSIMETRY' OR 'SHIELDING')
SELECTION RULE
SELENIUM
-SELF-CONSISTENT CALCULATION ('BOOTSTRAP' OR, IF QUANTUM MECHANICS, 'APPROXIMATION, HARTREE-FOCK')
-SELF-COUPLING (NOT USED)
-SELF-ENERGY (PROPAGATOR, RENORMALIZATION)
-SELF-INTERACTION (RENORMALIZATION)
-SEMICLASSICAL (SEE 'APPROXIMATION, QUASICLASSICAL' OR 'APPROXIMATION, WKB')
SEMICONDUCTOR
SEMICONDUCTOR DETECTOR (SEE ALSO 'SOLID-STATE COUNTER')
-SEMIINCLUSIVE REACTION (USE 'INCLUSIVE REACTION')
*SEMILEPTONIC DECAY
*SENDAI LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*SEPARABLE POTENTIAL (MODEL, SEPARABLE POTENTIAL)
*SEPARATED-ORBIT (CYCLOTRON, SEPARATED-ORBIT)
*SEPTET (QUARK, SEPTET)
-SEPTUM MAGNET (SEE 'MAGNET, EJECTION')
*SERIAL HIGHWAY (CAMAC SYSTEM, SERIAL HIGHWAY)
*SERPUKHOV PS (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*SEXTET (QUARK, SEXTET)
-SEXTUPOLE LENS (QUADRUPOLE LENS, SPECIAL FOCUSING)
-SHADOW SCATTERING (SEE 'MODEL, OPTICAL' OR 'MODEL, VECTOR DOMINANCE')
*SHADOWING (EFFECT, SHADOWING)
*SHELL (MODEL, SHELL)
SHIELDING
*SHOCK WAVES (MODEL, SHOCK WAVES)
*SHORT-DISTANCE BEHAVIOR (FIELD THEORY, SHORT-DISTANCE BEHAVIOR)
*SHORT-RANGE (USED ONLY AS 'CORRELATION, SHORT-RANGE'. NOT USED FOR SHORT-RANGE FORCES)
-SHOWER COUNTER (USE 'SHOWER DETECTOR')
SHOWER DETECTOR
-SHOWER SPECTROMETER (USE 'SHOWER DETECTOR')
SHOWERS
-SHRINKAGE (HIGH ENERGY BEHAVIOR)
SIGMA (USED FOR THE HYPERON; ALSO 'FIELD THEORETICAL MODEL, SIGMA')
SIGMA ANTISIGMA
SIGMA BARYON RESONANCE
SIGMA DEUTERON
SIGMA INTERMEDIATE BOSON
-SIGMA MODEL (FIELD THEORETICAL MODEL, SIGMA)
SIGMA NUCLEUS
SIGMA QUARK
-SIGMA TERM MODEL (USE 'SYMMETRY, CHIRAL' AND, E. G., 'MESON NUCLEON, INTERACTION')
SIGMA VECTOR MESON
SIGMA(1385)
SIGMA(1765)
SIGMA(1915)
SIGMA(2030)
SIGMA(2250)
SIGMA(2455)
SIGMA(2620)
SIGMA+
SIGMA+ BARYON RESONANCE
SIGMA+ DEUTERON
SIGMA+ INTERMEDIATE BOSON
SIGMA+ NUCLEUS
SIGMA+ QUARK
SIGMA+ SIGMA-
SIGMA+ SIGMA0
SIGMA+ VECTOR MESON
SIGMA-
SIGMA- BARYON RESONANCE
SIGMA- DEUTERON
SIGMA- INTERMEDIATE BOSON
SIGMA- NUCLEUS
SIGMA- QUARK
SIGMA- VECTOR MESON
SIGMA'(1670)
SIGMA'(1750)
SIGMA''(1940)
SIGMA0
SIGMA0 BARYON RESONANCE
SIGMA0 DEUTERON
SIGMA0 INTERMEDIATE BOSON
SIGMA0 NUCLEUS
SIGMA0 QUARK
SIGMA0 SIGMA-
SIGMA0 VECTOR MESON
SILICON
SILVER
*SIN CYCL (AT VILLIGEN. ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*SINE-GORDON ('FIELD EQUATIONS, SINE-GORDON' OR 'QUANTUM MECHANICS, SINE-GORDON')
-SINGLE (FOR SINGLE PARTICLES SEE 'ONE-PARTICLE', 'ONE-MESON' ETC.)
-SINGLE PARTICLE (SEE 'ONE-PARTICLE'; ALSO 'INCLUSIVE PRODUCTION')
-SINGLE-ARM SPECTROMETER (SEE 'MAGNETIC SPECTROMETER')
-SINGLE-LOOP APPROXIMATION ('FEYNMAN GRAPH, HIGHER-ORDER' OR 'DUAL FIELD THEORY, HIGHER-ORDER')
-SKELETON (FEYNMAN GRAPH)
*SL(2,C) (SYMMETRY, SL(2,C))
*SLAC LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*SLAC STOR (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*SLAVNOV IDENTITY (GAUGE FIELD THEORY, SLAVNOV IDENTITY)
*SMALL-ANGLE
-SMOKATRON (ACCELERATOR, ELECTRON RING)
*SO(N) (SYMMETRY, SO(N))
*SO(2,2) (SYMMETRY, SO(2,2))
*SO(3) (SYMMETRY, SO(3))
*SO(4) (SYMMETRY, SO(4))
*SODING (MODEL, SODING)
SODIUM
-SOFT PHOTON (RADIATIVE CORRECTION)
-SOFT PIONS ('CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS' OR 'MODEL, PCAC')
SOLID-STATE COUNTER (SEE ALSO 'SUPERCONDUCTOR DETECTOR')
SOLIDS
*SOLITON (FIELD THEORY, SOLITON)
-SOMMERFELD-WATSON TRANSFORMATION (REGGE POLES)

-SONIC SPARK CHAMBER (SPARK CHAMBER, ACOUSTIC)
-SOURCE (SEE 'FIELD THEORY' OR 'PARTICLE SOURCE')
-SOURCE ALGEBRA (CURRENT ALGEBRA)
*SPACE
*SPACE CHARGE (FOR ACCELERATORS ONLY)
*SPACE RAD LAB LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-SPALLATION (SEE 'FISSION')
SPARK CHAMBER
*SPATIAL DISTRIBUTION (ONLY USED FOR COSMIC RADIATION; SEE ALSO 'ANGULAR DISTRIBUTION')
*SPATIAL RESOLUTION (COUNTERS AND DETECTORS, SPATIAL RESOLUTION)
-SPEAR (FOR ACCELERATOR ASPECTS, 'ELECTRON POSITRON, STORAGE RING'. FOR EXPERIMENTAL RESULTS, 'SLAC STOR')
*SPECIAL FOCUSING (MAGNET, SPECIAL FOCUSING)
*SPECTATOR ('MODEL, SPECTATOR', POSSIBLY ALSO 'MODEL, DEUTERON')
SPECTRA
-SPECTRAL FUNCTION (SEE 'SPECTRAL REPRESENTATION' OR 'MANDELSTAM REPRESENTATION')
SPECTRAL REPRESENTATION
SPECTROMETER ((RESTRICTED USE), SEE 'MAGNETIC SPECTROMETER'. SEE ALSO 'HADRON SPECTROSCOPY')
-SPECTROSCOPY (SEE 'SPECTROMETER' OR 'MAGNETIC SPECTROMETER'. SEE ALSO 'HADRON SPECTROSCOPY')
SPIN
-SPIN FLIP (SEE 'AMPLITUDE ANALYSIS')
-SPIN NONFLIP (SEE 'AMPLITUDE ANALYSIS')
-SPIN-PARITY ANALYSIS (PARTIAL-WAVE ANALYSIS)
*SPINLESS ((RESTRICTED USE), NOT USED FOR BOSONS)
SPINOR
-SPINOR FIELD THEORY (FIELD THEORY, SPINOR)
-SPLITTING (SEE 'MASS DIFFERENCE')
*SPONTANEOUSLY BROKEN (SYMMETRY, SPONTANEOUSLY BROKEN)
-SPURION (SEE 'SYMMETRY, U(12)')
-SQUARE-WELL POTENTIAL (POTENTIAL SCATTERING)
*STACK ('COUNTERS AND DETECTORS, STACK' OR 'NUCLEAR EMULSION, STACK')
*STACKING ('INJECTION, STACKING' AND 'STORAGE RING')
*STANFORD LINAC MK3 (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-STATIC MODEL (SEE 'MODEL, CHEW-LOW')
*STATISTICAL (MODEL, STATISTICAL)
STATISTICAL ANALYSIS (RESTRICTED TO BASIC PAPERS)
-STATISTICAL BOOTSTRAP (BOOTSTRAP, STATISTICAL)
STATISTICAL MECHANICS
-STATISTICAL TENSOR (SPIN, DENSITY MATRIX)
STATISTICS
STEEL
*STICHEL THEOREM (SELECTION RULE, STICHEL THEOREM)
*STICHEL-SCHOLZ (MODEL, STICHEL-SCHOLZ)
-STIMULATED EMISSION (SEE 'OPTICS, LASER' OR 'RADIATIVE DECAY' OR 'ATOMIC PHYSICS')
-STOCHASTIC MODEL (MODEL, STATISTICAL)
*STODOLSKY-SAKURAI (MODEL, STODOLSKY-SAKURAI)
STORAGE RING (FOR ACCELERATOR ASPECTS ONLY; FOR EXPERIMENTAL RESULTS USE 'COLLIDING BEAMS')
STRANGE PARTICLE
STRANGENESS
*STRANGENESS CHANGING (CURRENT, STRANGENESS CHANGING)
STREAMER CHAMBER
*STRING (MODEL, STRING)
*STRIP (APPROXIMATION, STRIP)
-STRONG ABSORPTION (MODEL, ABSORPTION)
*STRONG COUPLING (MODEL, STRONG COUPLING)
STRONG INTERACTION (ALSO 'MODEL, STRONG INTERACTION')
STRONTIUM
*STRUCTURE FUNCTION (USE ONLY SINGLY. OCCURS WITH 'INCLUSIVE REACTION' OR 'DEEP INELASTIC SCATTERING'. DO NOT USE 'ANALYTIC PROPERTIES')
*SU(N) (SYMMETRY, SU(N))
*SU(N) X SU(N) (SYMMETRY, SU(N) X SU(N))
*SU(1,1) (SYMMETRY, SU(1,1))
*SU(2) (SYMMETRY, SU(2))
*SU(2) X SU(2) (SYMMETRY, SU(2) X SU(2))
*SU(2) X U(1) (SYMMETRY, SU(2) X U(1))
*SU(2) X U(1) X SU(3) (SYMMETRY, SU(2) X U(1) X SU(3))
*SU(2)W (SYMMETRY, SU(2)W)
*SU(2,2) (SYMMETRY, SU(2,2))
*SU(3) (SYMMETRY, SU(3))
*SU(3) X SU(3) (SYMMETRY, SU(3) X SU(3))
*SU(3) X SU(3)' (SYMMETRY, SU(3) X SU(3)')
*SU(3) X U(1) (SYMMETRY, SU(3) X U(1))
*SU(3)' (SYMMETRY, SU(3)')
*SU(3)' X SU(3)'' (SYMMETRY, SU(3)' SU(3)'')
*SU(3)'' (SYMMETRY, SU(3)'')
*SU(4) (SYMMETRY, SU(4))
*SU(4) X SU(4) (SYMMETRY, SU(4) X SU(4))
*SU(6) (SYMMETRY, SU(6))
*SU(6) X O(3) (SYMMETRY, SU(6) X O(3))
*SU(6)W (SYMMETRY, SU(6)W)
*SU(8) (SYMMETRY, SU(8))
*SUGAWARA (MODEL, SUGAWARA)
SULFUR
SUM RULE
SUPERCONDUCTING (FOR APPARATUS; ALSO USED THEORETICALLY: 'MODEL, SUPERCONDUCTING')
-SUPERCONDUCTIVITY (SEE 'SUPERCONDUCTING')
*SUPERCONVERGENCE (SUM RULE, SUPERCONVERGENCE)
-SUPERFIELD (FIELD THEORY, SUPERSYMMETRY)
-SUPERGAUGE (GAUGE FIELD THEORY, SUPERSYMMETRY)
-SUPERMULTIPLET (USE 'MULTIPLET')
-SUPERPOSITION ('INTERFERENCE' (RESTRICTED USE))
*SUPERPROPAGATOR (PROPAGATOR, SUPERPROPAGATOR)
*SUPERRENORMALIZABLE (FIELD THEORETICAL MODEL, SUPERRENORMALIZABLE)
*SUPERSELECTION RULE (SUM RULE, SUPERSELECTION RULE)
*SUPERSYMMETRY (FIELD THEORY, SUPERSYMMETRY)
*SUPERWEAK INTERACTION (WEAK INTERACTION, SUPERWEAK INTERACTION)
-SUSCEPTIBILITY (SEE 'MAGNET')
SYMMETRY
SYMMETRY BREAKING
-SYMPLECTIC GROUPS (SEE 'GROUP THEORY')
SYNCHRO-CYCLOTRON
-SYNCHROPHASOTRON (SYNCHROTRON OR PROTON SYNCHROTRON OR ELECTRON SYNCHROTRON)
SYNCHROTRON
SYNCHROTRON OSCILLATION

T
-T-INVARIANCE (INVARIANCE, TIME REVERSAL)
-T-MATRIX (S-MATRIX)
TABLES
*TACHYON (POSTULATED PARTICLE, TACHYON)
*TADPOLE (FEYNMAN GRAPH, TADPOLE)
*TAGGED BEAM ('PHOTON, TAGGED BEAM' OR 'ELECTRON, TAGGED BEAM')
-TALK (NOT USED AS A KEYWORD. FOR CONFERENCE LECTURES AND REVIEWS, KEYWORDS 'LECTURES' OR 'REVIEW' WILL BE USED. OTHER CONFERENCE TALKS HAVE ENTRY (TALK) AFTER TITLE.)
TANTALUM
TARGET
-TARGET POLARIZATION (USE 'TARGET, POLARIZATION' FOR MEASUREMENT OF POLARIZATION DEGREE. SEE ALSO 'POLARIZED TARGET')
*TASSO (PROPOSED FOR PETRA; 'MAGNETIC DETECTOR, TASSO')
-TCP (SEE 'CPT')
-TOC (FAST LOGIC, TIME-OF-FLIGHT)
TECHNETIUM
-TECHNOLOGY (SEE FOR MORE SPECIFIC TERMS)
-TELESCOPE (SEE MORE SPECIFIC KEYWORD)
TELLURIUM
TEMPERATURE
*TENSOR (RESTRICTED USE)
*TENSOR MESON
-TENSOR MESON DOMINANCE (MODEL, MESON DOMINANCE)
TERBIUM
THALLIUM
THEORY OF ELEMENTARY PARTICLES
-THERMAL SHIELDING (VACUUM SYSTEM)
*THERMODYNAMICAL (MODEL, THERMODYNAMICAL)
THERMODYNAMICS
*THERMOLUMINESCENCE (COUNTERS AND DETECTORS, THERMOLUMINESCENCE)
THESIS (INCLUDING SOME MASTERS' THESES)
*THIRRING ('FIELD THEORETICAL MODEL, THIRRING)
THORIUM
-THREE-BODY ANNIHILATION (MULTIPLE PRODUCTION, ANNIHILATION)
THREE-BODY PROBLEM
-THREE-MESON (SEE 'EXCHANGE, MULTIMESON')
-THREE-PHOTON (SEE 'EXCHANGE, MULTIPHOTON)
-THREE-PION (SEE 'EXCHANGE, MULTIPION')
-THREE-POINT FUNCTION (VERTEX FUNCTION)
THRESHOLD
THULIUM
-TIME DISTRIBUTION (SEE 'TIME VARIATION'; ONLY USED FOR COSMIC RADIATION OR FUNDAMENTAL CONSTANTS)
*TIME MEASUREMENT (SEE ALSO 'FAST LOGIC,
*TIME RESOLUTION (COUNTERS AND DETECTORS, TIME RESOLUTION)
TIME-OF-FLIGHT' OR 'FAST LOGIC, COINCIDENCE')
*TIME REVERSAL ('INVARIANCE, TIME REVERSAL' OR 'VIOLATION, TIME REVERSAL')
*TIME VARIATION (ONLY USED FOR COSMIC RADIATION OR FUNDAMENTAL CONSTANTS)
*TIME-OF-FLIGHT (FAST LOGIC, TIME-OF-FLIGHT)
-TIME-TO-DIGITAL CONVERTER (FAST LOGIC, TIME-OF-FLIGHT)
TIN
TITANIUM
*TOKYO ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-TOLLER POLE MODEL ('PARTIAL WAVE' AND 'ANALYTIC PROPERTIES')
*TOMSK ES (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-TOPOLOGICAL CROSS SECTION (CHANNEL CROSS SECTION)
*TOPOLOGICAL EXPANSION (DUALITY, TOPOLOGICAL EXPANSION)
TOTAL CROSS SECTION (SEE ALSO 'CHANNEL CROSS SECTION')
TOTAL-ABSORPTION COUNTER
-TOUSCHEK EFFECT (BEAM INSTABILITY)
-TPC (TIME-TO-PULSE-HEIGHT CONVERTER: 'FAST LOGIC')
-TRACK CHAMBER (SEE 'TRACK SENSITIVE')
TRACK DATA ANALYSIS
-TRACK FOLLOWING (USE 'TRACK DATA ANALYSIS, ON-LINE' OR 'TRACK DATA ANALYSIS, OFF-LINE')
-TRACK MEASURING (USE 'TRACK DATA ANALYSIS, ON-LINE' OR 'TRACK DATA ANALYSIS, OFF-LINE')
TRACK PHOTOGRAPHY
*TRACK SENSITIVE (ONLY USED FOR TRACKS VISUALIZED IN MATTER, LIKE 'PLASTICS, TRACK SENSITIVE' OR 'GLASS, TRACK SENSITIVE')
TRACKS
-TRAJECTORY (SEE 'REGGE POLES' OR 'REGGE CUT'. NOT USED FOR PARTICLE TRAJECTORY)
TRANSFORMATION (NOT USED IN CONNECTION WITH 'RENORMALIZATION GROUP')
*TRANSITION
*TRANSITION RADIATION (SEE 'COUNTERS AND DETECTORS, TRANSITION RADIATION'. NOT USED FOR RADIATIVE DECAY)
-TRANSITION RADIATION COUNTER (USE 'COUNTERS AND DETECTORS, TRANSITION RADIATION')
-TRANSMISSION (USE 'ABSORPTION')
*TRANSURANIUM (ELEMENTS, TRANSURANIUM)
*TRANSVERSE (RESTRICTED USE, SEE ALSO 'TRANSVERSE MOMENTUM')
-TRANSVERSE BEAM OSCILLATION (BETATRON OSCILLATION)
TRANSVERSE MOMENTUM
-TREE APPROXIMATION (CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS)
-TREIMAN-YANG TEST (DECAY, ANGULAR DISTRIBUTION)
-TRIANGLE ANOMALY
-TRIANGLE GRAPH (FEYNMAN GRAPH)
-TRIGGERING (FAST LOGIC, COINCIDENCE)
-TRIPLE-POMERON COUPLING (POMERON, COUPLING)
*TRIPLE-REGGE LIMIT (INCLUSIVE REACTION, TRIPLE-REGGE LIMIT)
*TRIPLET ('MODEL, TRIPLET' AND 'QUARK')
TRITIUM
*TRIUMF CYCL (AT VANCOUVER. ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
-TRUSS GRAPH (APPROXIMATION, LADDER)
-TUNE SHIFT (SEE 'RF SYSTEM' OR 'BEAM OPTICS')
TUNGSTEN
-TWO-BODY (USE ONLY AS 'EXCHANGE, TWO-PARTICLE')
-TWO-COMPONENT (POSSIBLY 'DIFFRACTION, DISSOCIATION' AND 'MODEL, MULTIPERIPHERAL')
*TWO-COMPONENT NEUTRINO (MODEL, TWO-COMPONENT NEUTRINO)
*TWO-PARTICLE (EXCHANGE, TWO-PARTICLE)
*TWO-PHOTON (EXCHANGE, TWO-PHOTON)
*TWO-PION (EXCHANGE, TWO-PION)

*U(N) (SYMMETRY, U(N))
*U(1) (SYMMETRY, U(1))
*U(12) (SYMMETRY, U(12))
U(2375)
*U(3) (SYMMETRY, U(3))
*U(3) X U(3) (SYMMETRY, U(3) X U(3))
*U(4) (SYMMETRY, U(4))
*U(4) X U(4) (SYMMETRY, U(4) X U(4))
*U(6) (SYMMETRY, U(6))
*U(6,6) (SYMMETRY, U(6,6))
*U-SPIN (QUANTUM NUMBER, U-SPIN)
-UIR (GROUP THEORY)
-ULTRAVIOLET DIVERGENCE (RENORMALIZATION)
-UNIFIED FERMION (MODEL, FERMION)
UNIFIED FIELD THEORY (KINDS OF INTERACTION WHICH ARE UNIFIED ARE ADDED)
UNITARITY (RESTRICTED USE)
-UNITARY IRREDUCIBLE REPRESENTATION (GROUP THEORY)
-UNIVERSAL FERMI INTERACTION (MODEL, WEAK INTERACTION)
*UNIVERSALITY ('ELECTRON MUON, UNIVERSALITY' OR 'WEAK INTERACTION, UNIVERSALITY' OR 'STRONG INTERACTION, UNIVERSALITY' OR 'ELECTROMAGNETIC INTERACTION, UNIVERSALITY')
*UR-CITON (MODEL, UR-CITON)
URANIUM
*URBANA BETATRON (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*URBARYON (MODEL, URBARYON)

U

-V-A THEORY (MODEL, WEAK INTERACTION)
*V-SPIN (QUANTUM NUMBER, V-SPIN)
-VACUUM CHAMBER (SEE 'VACUUM SYSTEM')
-VACUUM EXCHANGE (EXCHANGE, VACUUM QUANTUM NUMBER)
*VACUUM POLARIZATION (FIELD THEORY, VACUUM POLARIZATION)
*VACUUM QUANTUM NUMBER (EXCHANGE, VACUUM QUANTUM NUMBER)
*VACUUM STATE (FIELD THEORY, VACUUM STATE)
VACUUM SYSTEM
-VACUUM TECHNIQUES (USE 'VACUUM SYSTEM')
*VALENCE (MODEL, VALENCE)
*VALIDITY TEST (RESTRICTED USE FOR GENERAL TESTS BUT NOT FOR INTERPRETATIONS. EXAMPLE: 'QUANTUM ELECTRODYNAMICS, VALIDITY TEST')
*VAN HOVE (MODEL, VAN HOVE)
-VAN HOVE PLOT (USE 'MULTIDIMENSIONAL ANALYSIS, LONGITUDINAL PHASE SPACE')
VANADIUM
*VARIABLE MASS (MODEL, VARIABLE MASS)
-VARIABLE-ENERGY CYCLOTRON (CYCLOTRON)
*VECTOR ('CURRENT, VECTOR' (RESTRICTED USE))
-VECTOR BOSON (SEE 'INTERMEDIATE BOSON' OR 'VECTOR MESON')
-VECTOR CURRENT (SEE 'CURRENT, VECTOR' OR 'CONSERVED VECTOR CURRENT' OR 'CONSERVED A-V CURRENT' OR 'PCAC' OR 'PCVC')
*VECTOR DOMINANCE (MODEL, VECTOR DOMINANCE)
VECTOR MESON
VECTOR MESON BARYON RESONANCE
VECTOR MESON DEUTERON
-VECTOR MESON EXCHANGE (EXCHANGE, VECTOR MESON)
VECTOR MESON INTERMEDIATE BOSON
VECTOR MESON LIGHT NUCLEUS
VECTOR MESON NUCLEON
VECTOR MESON NUCLEUS
VECTOR MESON QUARK
VECTOR MESON VECTOR MESON
-VECTOR-AXIAL-VECTOR THEORY (WEAK INTERACTION)
-VELOCITY SPECTROMETER (FAST LOGIC, TIME-OF-FLIGHT)
*VENEZIANO (MODEL, VENEZIANO)
VERTEX FUNCTION
-VERTEX SPECTROMETER (SEE 'HYBRID SYSTEM')
VIOLATION
*VIRASORO (MODEL, VIRASORO)
-VIRASORO ALGEBRA (ALGEBRA, VIRASORO)
-VIRTUAL (NOT USED)
-VIRTUAL PHOTOPRODUCTION (USE 'ELECTROPRODUCTION'; FOR Q-SQUARED --> 0 ADD 'PHOTOPRODUCTION')
*VON NEUMANN (ALGEBRA, VON NEUMANN)
*VORTEX (SEE 'FIELD THEORY, VORTEX')

V

W (ALGEBRA, W*)
-W-SPIN (SYMMETRY, SU(6)W)
-WALECKA MODEL (NUCLEAR PROPERTIES)
*WANG (MODEL, WANG)
*WARD IDENTITY ('FIELD THEORY, WARD IDENTITY'; SEE ALSO 'WARD-TAKAHASHI IDENTITY')
*WARD-TAKAHASHI IDENTITY (QUANTUM ELECTRODYNAMICS, WARD-TAKAHASHI IDENTITY)
WATER
-WATSON-SOMMERFELD TRANSFORMATION (REGGE POLES)
-WAVE EQUATION (QUANTUM MECHANICS)
-WAVE FUNCTION (QUANTUM MECHANICS)
-WAVE PACKET (QUANTUM MECHANICS)
-WAVEGUIDE (SEE 'RF SYSTEM' OR 'LINEAR ACCELERATOR' OR 'MICROWAVES')
-WEAK ABSORPTION (MODEL, ABSORPTION)
-WEAK COUPLING (PERTURBATION THEORY)
*WEAK CURRENT
WEAK INTERACTION (ALSO 'MODEL, WEAK INTERACTION')
*WEINBERG (FIELD THEORETICAL MODEL, WEINBERG)
*WEINBERG ANGLE (WEAK INTERACTION, WEINBERG ANGLE)
-WEIZSAECKER-WILLIAMS (APPROXIMATION, EQUIVALENT PHOTON)
-WESS-ZUMINO (FIELD THEORY, SUPERSYMMETRY)
*WEYL (ALGEBRA, WEYL)
*WICK-CUTKOSKY (MODEL, WICK-CUTKOSKY)
*WIDE-ANGLE ('SPECTROMETER, WIDE-ANGLE' OR, E.G., 'PRODUCTION, WIDE-ANGLE')
*WIDE-GAP (SPARK CHAMBER, WIDE-GAP)
*WIDTH (USAGE IN ACCORDANCE WITH ROSENFELD TABLES)
-WIGHTMAN FIELDS (AXIOMATIC FIELD THEORY)
-WIGHTMAN FUNCTION (AXIOMATIC FIELD THEORY)
*WIGNER-WEISSKOPF (MODEL, WIGNER-WEISSKOPF)
-WILLIAMS-WEIZSAECKER (APPROXIMATION, EQUIVALENT PHOTON)
-WILSON EXPANSION (FIELD THEORY, SHORT-DISTANCE BEHAVIOR)
*WIRE (SPARK CHAMBER, WIRE)
*WKB (APPROXIMATION, WKB)
-WOLF METHOD (CORRECTION, OFF-SHELL)
-WOODS-SAXON ('POTENTIAL' OR 'POTENTIAL SCATTERING')
*WU-YANG (MODEL, WU-YANG)

W

X
X(2830)
-X(4100) STRUCTURE (PSI(4100) STRUCTURE)
XENON
XI
XI BARYON RESONANCE
XI DEUTERON
XI INTERMEDIATE BOSON
XI LIGHT NUCLEUS
XI NUCLEUS
XI QUARK
XI VECTOR MESON
XI XI
XI(1530)
XI(1820)
XI(1940)
XI-
XI- ANTI-XI-
XI- BARYON RESONANCE
XI- DEUTERON
XI- INTERMEDIATE BOSON
XI- LIGHT NUCLEUS
XI- NUCLEUS
XI- QUARK
XI- XI-
XIO
XIO BARYON RESONANCE
XIO DEUTERON
XIO INTERMEDIATE BOSON
XIO LIGHT NUCLEUS
XIO NUCLEUS
XIO QUARK
XIO XI-
-XO MESON RESONANCE (ETA'(958))

Y
-Y* (BARYON RESONANCE, HYPERON)
*YANG (MODEL, YANG)
-YANG-FELDMAN EQUATIONS (FIELD THEORY)
*YANG-MILLS (FIELD THEORETICAL MODEL, YANG-MILLS)
*YIELD (IN COMBINATION WITH PARTICLES, ONLY WHERE YIELD IS GIVEN WITHOUT CROSS SECTIONS)
YTTERBIUM
YTTRIUM
*YUKAWA (POTENTIAL, YUKAWA)

Z
Z (BARYON, Z*)
-ZACHARIASEN MODEL (FIELD THEORETICAL MODEL)
-ZGS ACCELERATOR ('PROTON SYNCHROTRON', FOR EXPERIMENTAL RESULTS USE 'ARGONNE PS')
-ZIMMERMANN MODEL (FIELD THEORETICAL MODEL)
ZINC
ZIRCONIUM
-ZWEIG RULE (SELECTION RULE, IIZUKA-OKUBO-ZWEIG)