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The HIGH ENERGY PHYSICS INDEX Keywords 1980

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DIESES INTERNEN BERICHTES LIEGT
AUSSCHLIESSLICH BEIM VERFASSER."

The HIGH ENERGY PHYSICS INDEX Keywords 1980

The terms in this keyword list are used by the DESY documentation service for the indexing of papers on high energy physics (beam energy above 100 MeV), quantum field theory and accelerator and detector technology.

1. Purpose of Keywords Assignment

Our keywords serve the following purposes:

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

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

The total 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 list ordered by subject (page V) and ordered alphabetically (page 1)

Non-keywords which are frequently used are standardized; they are contained in the alphabetical list (see also point 10).

3. Classification

Beside of indexing the selected papers are classified with 16 topical fields, one main and any number of secondary fields. For example: Experimental papers on electroproduction of charmed particles are assigned to the main field ((E)) and the secondary field ((C)); books on field theory are assigned to the main field ((3)) and the secondary field ((Z)). The 16 topical fields are the following:

I. Experimental Physics

((A)) general (also cosmic radiation, nuclear physics and gravitational radiation)
((B)) weak interactions
((C)) electromagnetic interactions, photoproduction
((D)) strong interactions
((E)) charm, beauty, truth and other new flavors

II. Instrumental physics (and data analysis methods)

((F)) accelerators
((G)) methods and detecting systems

III. Theoretical Physics

((T)) general (also mathematics, statistical mechanics, relativistic quantum mechanics, cosmic radiation, nuclear physics and gravitational radiation)
((U)) weak interactions
((V)) electromagnetic interactions, photoproduction
((W)) strong interactions
((X)) charm, beauty, truth and other new flavors
((Y)) symmetry principles (also current algebra)
((Z)) quantum field theory

IV. Monographs and Conference Proceedings

((3)) books
((4)) conferences

4. Two-Particle Combinations

Most of the combinations of any two particles (but not all) in the list are single regular keywords. These particles are arranged in order of rising masses, in case of same masses in order of charges: neutral particles before positive and negative - positive particles before negative ones.

5. Reaction Equations

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

ANTI-P P --→ KØ K- PI+
P P --→ P ANYTHING
DELTA(1236)Ø --→ P PI-

Particles on the left-hand side are arranged in the order of beam and target, particles on the right-hand side are arranged in the order of falling masses, in case of same masses in the order positive charge - negative charge - neutral charge.

6. 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 (examples: FINAL STATE, (NUCLEON 2PI); MASS SPECTRUM, (PI+ PI- PIØ)).

7. Energy Declarations

Energy resp. momentum is given in the same way as in the paper, but always in GeV. Additionally papers are assigned to energy-ranges.

Range	E(CM) [GEV-CM]	E(BEAM) [GEV] ; TARGET: NUCLEON		
		BEAM: PHOTON, E, PI	BEAM: K	BEAM: P
((1))	0.0 - 3.0	0.1 - 4.35	0.1 - 4.2	0.1 - 3.88
((2))	3.01-10.0	4.36-52.93	-52.80	-52.46
((3))	-30.0	-479.59	-479.45	-479.12
((4))	-100.0	-5330.0	-5329.89	-5329.55
((5))	>100	>5330.0	>5329.89	>5329.55

8. Resonances

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

9. 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, astrophysics, and nuclear physics with beam energy above 100 MeV/nucleon.

10. 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 keyword list,

terms which are not 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

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

PARTICLES

photon

(leptons)

neutrino
  neutrino/e/
  neutrino/mu/
  neutrino/tau/
  neutrino/L/
  antineutrino
  antineutrino/e/
  antineutrino/mu/
  antineutrino/tau/
  antineutrino/L/

electron
  positron

muon
  muon+
  muon-

tau
  tau+
  tau-

(mesons)

pi
  pi+
  pi-
  piø

K
  K+
  K-
  Kø
    Kø(L)
    Kø(S)
  anti-K
  anti-Kø

D
  D+
  D-
  Dø
  anti-D
  anti-Dø

F
  anti-F

(nucleons)

p
  anti-p

n
  anti-n

(hyperons)

Lambda
  Antilambda

Sigma
  Sigma+
  Sigma-
  Sigmaø
  Antisigma
  Antisigma+
  Antisigma-
  Antisigmaø

Xi
  Xi-
  Xiø
  Antixi
  Antixi-
  Antixiø

Omega-
  Antiomega-

(charmed baryons)

Lambda/c(2260)
Sigma/c(2430)

(meson resonances)

eta(549)
rho(765)
  rho(765)+
  rho(765)-
  rho(765)ø
omega(784)
eta(958)
delta(970)
S*(1000)
phi(1019)
A1(1070)
epsilon(1200)
B(1235)
f(1260)
D(1285)
A2(1310)
E(1422)
f(1514)
F1(1540)
rho(1600)
A3(1640)
omega(1675)
g(1680)
rho(1710)
h(2050)
K*(892)
Q region
Q1(1300)
Q2(1400)
K*(1420)
L(1770)

D*(2010)
D**
F*
F**

psi mesons
  X(2800)
  J/psi(3100)
  chi(3410)
  chi/PC(3510)
  chi(3550)
  psi(3700)
  psi(3770)
  psi(4100) structure
  psi(4400)

upsilon mesons
  upsilon(9500)
  upsilon(10000)
  upsilon(10400)

(baryon resonances)

N(1470)
N(1520)
N(1535)
N(1670)
N(1688)
N(1700)
N(1780)
N(1810)
N(2190)
N(2220)
N(2650)
N(3030)

Delta(1236)
  Delta(1236)+
  Delta(1236)++
  Delta(1236)-
  Delta(1236)--
  Delta(1236)ø
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
  charged particle
    positive particle
    negative particle
  neutral particle
  new particle
  postulated particle
    search for
    mass enhancement

fermion
  antifermion

boson
  intermediate boson

lepton
  antilepton
  heavy lepton

hadron
  meson
  meson resonance
    axial-vector meson
    pseudoscalar meson
    scalar meson
    tensor meson
    vector meson
  baryon
    antibaryon
    nucleon
      antinucleon
    hyperon
      antihyperon
    nucleon resonance
    baryon resonance

strange particle

charmed particle
  charmed meson
  charmed baryon

beautiful meson
truthful meson

colored particle

quark
  antiquark
gluon

nucleus
  excited nucleus
  hyperfragment
  light nucleus
    deuterium
      deuteron
    tritium

atom
  positronium

(for two-particle combinations, see alphabetical list)

PARTICLE PROPERTIES

charge
electric moment
isospin
magnetic moment
mass
  mass difference
  mass ratio
parity
quantum number
spin
  helicity
polarization
strangeness

INTERACTIONS

gravitation

weak interaction

charged current
neutral current

electromagnetic interaction

bremsstrahlung
Compton scattering
electroproduction
hyperfine structure
ionization
pair
photoproduction
radiative correction

strong interaction

charge exchange

(other keywords)

absorption
backscatter
capture
decay
diffraction
diffusion
elastic scattering
emission
exchange
final-state interaction
inclusive reaction
multiple production
  multiplicity
multiple scattering
potential scattering
recoil
scattering

INSTRUMENTS AND METHODS

(accelerators)

accelerator
  betatron
  cyclotron
    synchrocyclotron
  linear accelerator
  storage ring
  synchrotron
    electron synchrotron
    proton synchrotron

(internal and external beams)

aberration
beam
  beam cooling
  beam damping
  beam dynamics

beam emittance
beam focusing
beam instability
beam loading
beam loss
beam monitoring
beam optics
beam oscillation
betatron oscillation
synchrotron oscillation
beam transport
bunching
ejection
injection
luminosity
orbit
particle separator
particle source

(track measuring)

bubble chamber
bubble chamber(hydrogen)
bubble chamber(deuterium)
bubble chamber(heavy liquid)
cloud chamber
drift chamber
nuclear emulsion
proportional chamber
spark chamber
streamer chamber

hybrid system

tracks
track photography

counters and detectors

four-pi-detector
magnetic detector
spectrometer
magnetic spectrometer

hodoscope

Cherenkov counter
ionization chamber
liquid argon detector
scintillation counter
semiconductor detector
shower detector
solid-state counter
total-absorption counter

(electronics and computers)

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

(data analysis)

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

particle identification

track data analysis

(other keywords)

alignment
background
calibration
coil
control system
feedback
magnet
pulsed magnet
quadrupole lens
measurement
monitoring
power supply
RF system
microwaves
secondary radiation
shielding
target
vacuum system

THEORY OF PARTICLES AND FIELDS

field theory

axiomatic field theory
dual field theory
gauge field theory
quantum chromodynamics
quantum electrodynamics
quantum flavordynamics
Reggeon field theory
unified field theory

Bethe-Salpeter equation
expansion 1/N
Feynman graph
field equations
field theoretical model
light cone behaviour
propagator
quantization
renormalization
renormalization group
scaling

theory of elementary particles

bootstrap
current algebra
dispersion relations
duality
model
Regge poles
Regge cut
pomeron
spectral representation
Mandelstam representation
symmetry
hadron spectroscopy
mass formula
multiplet
symmetry breaking
unitarity

(other keywords)

conservation law
coupling
coupling constant
invariance
inverse scattering method
jet
n-point function
partial wave
S-matrix
scattering amplitude
scattering length
selection rule
spinor
sum rule
vertex function
violation

NUCLEAR PHYSICS

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

GENERAL PHYSICS

angular distribution
angular momentum
astrophysics
atomic physics
binding energy
bound state
correction
correlation
angular correlation
correlation function
cosmic radiation
cross section
channel cross section
differential cross section
total cross section
current
density
dependence
effect
electricity
electromagnetic field
electric field
magnetic field
energy
energy levels
energy loss
excited state
final state
form factor
flux
fundamental constant
forces
interference
kinematics
matter
antimatter
mechanics
moment
momentum
longitudinal momentum
transverse momentum
momentum transfer
optics
perturbation theory
plasma
potential
quantum mechanics
radiation
secondary radiation
radiation length
relativity theory
resonance
showers
spectra
mass spectrum
momentum spectrum
temperature
thermodynamics
threshold

OTHER FIELDS

mathematics

algebra
approximation
functional analysis
group theory
mathematical methods
numerical mathematics
statistics
transformation

(engineering)

buildings
communications
electrical engineering
heat engineering
low temperature
mechanical engineering
nuclear engineering
power engineering
safety
health physics
dosimetry
radiation protection
shielding

chemistry

chemicals
compounds
inorganic compounds
organic compounds

minerals

molecular biology

nuclear medicine

MATERIALS

alloy
ceramics
concrete
crystal
gas
glass
liquid
metal
plastics
rubber
semiconductor
solids
water

MODAL KEYWORDS

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

A

*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, ACOUSTIC)
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-FRISCH (SUM RULE, ADLER-DASHEN-GELL-MANN-FRISCH)
-ADLER-WEISSBERGER RELATION (*MODEL, PCAC* AND *CURRENT ALGEBRA*)
*ADMIXTURE
*AEROGEL (CHERENKOV COUNTER, AEROGEL)
-AGS ACCELERATOR (*PROTON SYNCHROTRON*; FOR EXPERIMENTAL RESULTS USE *BROOKHAVEN AGS*)
*AIR (SPARKERS, 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-FRISCH-STANGHELLINI (*MODEL, AMATI-FRISCH- 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 POLES, STRUCTURE FUNCTIONS; WILL GENERALLY BE COMBINED WITH KEYWORDS THE ANALYTIC PROPERTIES OF WHICH ARE INVESTIGATED)
-ANALYTICITY (ANALYTIC PROPERTIES)
ANGULAR CORRELATION
*ANGULAR DEPENDENCE
ANGULAR DISTRIBUTION
ANGULAR MOMENTUM
*ANGULAR RESOLUTION (COUNTERS AND DETECTORS, ANGULAR RESOLUTION)
-ANHARMONIC OSCILLATOR (*MODEL, OSCILLATOR)
*ANISOTROPY (SEE *COSMIC RADIATION, ANISOTROPY*)
*ANNIHILATION
*ANOMALY
ANTI-D
ANTI-D0
ANTI-F
ANTI-K
ANTI-K BARYON
ANTI-K DEUTERON
ANTI-K LIGHT NUCLEUS
ANTI-K N
ANTI-K NUCLEON
ANTI-K NUCLEUS
ANTI-K P
ANTI-K0
ANTI-K0 BARYON
ANTI-K0 BARYON RESONANCE
ANTI-K0 DEUTERON
ANTI-K0 K+
ANTI-K0 K-
ANTI-K0 LAMBDA
ANTI-K0 LIGHT NUCLEUS
ANTI-K0 MESON RESONANCE
ANTI-K0 N
ANTI-K0 NUCLEON
ANTI-K0 NUCLEUS
ANTI-K0 P
ANTI-K0 VECTOR MESON
ANTI-N
ANTI-N BARYON RESONANCE
ANTI-N DEUTERON
ANTI-N HYPERON
ANTI-N LAMBDA
ANTI-N LIGHT NUCLEUS
ANTI-N NUCLEUS
ANTI-N OMEGA-
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 LAMBDA
ANTI-P LIGHT NUCLEUS
ANTI-P N
ANTI-P NUCLEON
ANTI-P NUCLEUS
ANTI-P OMEGA-
ANTI-P P
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 LAMBDA
ANTIBARYON LIGHT NUCLEUS
ANTIBARYON N
ANTIBARYON NUCLEON
ANTIBARYON NUCLEUS
ANTIBARYON OMEGA-
ANTIBARYON P
ANTIBARYON SIGMA
ANTIBARYON SIGMA+
ANTIBARYON SIGMA-
ANTIBARYON SIGMA0
ANTIBARYON VECTOR MESON
ANTIBARYON XI
ANTIBARYON XI-
ANTIBARYON XI0
-ANTIDEUTERON (DEUTERON, ANTIPARTICLE)
ANTIFERMION
-ANTIHADRON (HADRON, ANTIPARTICLE)
ANTIHYPERON
ANTIHYPERON BARYON RESONANCE
ANTIHYPERON DEUTERON
ANTIHYPERON LIGHT NUCLEUS
ANTIHYPERON NUCLEUS
ANTILAMBDA
ANTILAMBDA BARYON RESONANCE
ANTILAMBDA DEUTERON
ANTILAMBDA LIGHT NUCLEUS
ANTILAMBDA NUCLEUS
ANTILAMBDA VECTOR MESON
ANTILEPTON
ANTIMATTER
ANTIMONY
ANTINEUTRINO
ANTINEUTRINO ANTI-K0
ANTINEUTRINO ANTI-N
ANTINEUTRINO ANTI-P
ANTINEUTRINO ANTIBARYON
ANTINEUTRINO ANTINEUTRINO
ANTINEUTRINO ANTINUCLEON
ANTINEUTRINO BARYON
ANTINEUTRINO BARYON RESONANCE
ANTINEUTRINO BOSON
ANTINEUTRINO DEUTERON
ANTINEUTRINO ELECTRON
ANTINEUTRINO HADRON
ANTINEUTRINO HYPERON
ANTINEUTRINO K
ANTINEUTRINO K+

A

ANTINEUTRINO K-
ANTINEUTRINO K0
ANTINEUTRINO LAMBDA
ANTINEUTRINO LIGHT NUCLEUS
ANTINEUTRINO MESON
ANTINEUTRINO MESON RESONANCE
ANTINEUTRINO MUON
ANTINEUTRINO MUON+
ANTINEUTRINO MUON-
ANTINEUTRINO N
ANTINEUTRINO NUCLEON
ANTINEUTRINO NUCLEUS
ANTINEUTRINO OMEGA-
ANTINEUTRINO P
ANTINEUTRINO PI
ANTINEUTRINO PI+
ANTINEUTRINO PI-
ANTINEUTRINO PI0
ANTINEUTRINO POSITRON
ANTINEUTRINO SIGMA
ANTINEUTRINO SIGMA+
ANTINEUTRINO SIGMA-
ANTINEUTRINO SIGMA0
ANTINEUTRINO VECTOR MESON
ANTINEUTRINO XI
ANTINEUTRINO XI-
ANTINEUTRINO XI0
ANTINEUTRINO/E/
ANTINEUTRINO/L/ (HEAVY-LEPTON ANTINEUTRINO)
ANTINEUTRINO/MU/
ANTINEUTRINO/TAU/
-ANTINEUTRINOPRODUCTION (NEUTRINOPRODUCTION)
-ANTINEUTRON (ANTI-N)
ANTINUCLEON
ANTINUCLEON BARYON RESONANCE
ANTINUCLEON DEUTERON
ANTINUCLEON HYPERON
ANTINUCLEON LAMBDA
ANTINUCLEON LIGHT NUCLEUS
ANTINUCLEON N
ANTINUCLEON NUCLEUS
ANTINUCLEON OMEGA-
ANTINUCLEON SIGMA
ANTINUCLEON SIGMA+
ANTINUCLEON SIGMA-
ANTINUCLEON SIGMA0
ANTINUCLEON VECTOR MESON
ANTINUCLEON XI
ANTINUCLEON XI-
ANTINUCLEON XI0
*ANTINUCLEUS
ANTIOMEGA-
ANTIPARTICLE
ANTIQUARK
ANTISIGMA
ANTISIGMA BARYON RESONANCE
ANTISIGMA DEUTERON
ANTISIGMA LIGHT NUCLEUS
ANTISIGMA NUCLEUS
ANTISIGMA+
ANTISIGMA-
ANTISIGMA0
ANTIXI
ANTIXI BARYON RESONANCE
ANTIXI DEUTERON
ANTIXI LIGHT NUCLEUS
ANTIXI NUCLEUS
ANTIXI VECTOR MESON
ANTIXI-
ANTIXI0
*ANYTHING (ONLY IN REACTIONS)
*ANYTHING+ (ONLY IN REACTIONS)
*ANYTHING- (ONLY IN REACTIONS)
*ANYTHING0 (ONLY IN REACTIONS)
APPROXIMATION
-ARGAND PLOT (USE *PARTIAL WAVE ANALYSIS*)
ARGON
*ARGONNE PS
-ARRAY (SEE *PROCESSOR* OR *PROGRAMMING*)
ARSENIC
*ASSOCIATED PRODUCTION
ASTATINE
ASTROPHYSICS
*ASYMMETRY
*ASYMPTOTIC BEHAVIOR (NOT TO BE USED IN CASE OF HIGH ENERGY BEHAVIOR, FOR ASYMPTOTIC BEHAVIOR AT LOW ENERGIES SEE *INFRARED PROBLEM*)
-ASYMPTOTIC EXPANSION (SEE *EXPANSION 1/N*)
*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 (FOR ELECTRONIC CIRCUITS *DIGITAL LOGIC* IS USED, FOR OTHER CIRCUITS *ELECTRICAL ENGINEERING*)
*AXIAL
*AXIAL GAUGE (GAUGE FIELD THEORY, AXIAL GAUGE)
*AXIAL-VECTOR (CURRENT, AXIAL-VECTOR)
AXIAL-VECTOR MESON
*AXIAL-VECTOR MESON DOMINANCE (MODEL, AXIAL-VECTOR MESON DOMINANCE)
AXIOMATIC FIELD THEORY
*AXION (POSTULATED PARTICLE, AXION)
A1(1070)
-A2 EXCHANGE (EXCHANGE, A2(1310))
-A2 SPLITTING (A2(1310), MASS DIFFERENCE)
A2(1310)
A3(1640)

@(1235)
@ACKGROUND
-@ACKGROUND RADIATION (RADIATION, @ACKGROUND)
@ACKSCATTER
-@ACKWARD SCATTERING (@ACKSCATTER)
*@AECKLUND (TRANSFORMATION, @AECKLUND)
*@AG (MODEL, @AG)
*@ALI-CHEW-PIGNOTTI (MODEL, @ALI-CHEW-PIGNOTTI)
-@ANACH SPACE (USE "LINEAR SPACES")
*@ARDAKCI-KLEGG (MODEL, @ARDAKCI-KLEGG)
*@ARDAKCI-KLEGG-VIRASORO (MODEL, @ARDAKCI-KLEGG-VIRASORO)
@ARIUM
@ARYON
@ARYON ANTI-N
@ARYON ANTI-P
@ARYON ANTIBARYON
@ARYON ANTIHYPERON
@ARYON ANTILAMBDA
@ARYON ANTINUCLEON
@ARYON ANTISIGMA
@ARYON ANTIXI
@ARYON BARYON
@ARYON BARYON RESONANCE
@ARYON DEUTERON
-@ARYON EXCHANGE (EXCHANGE, @ARYON)
@ARYON HYPERON
@ARYON LAMBDA
@ARYON LIGHT NUCLEUS
@ARYON N
@ARYON NUCLEON
@ARYON NUCLEUS
-@ARYON NUMBER (USUALLY "CONSERVATION LAW, @ARYON"; SEE ALSO "QUANTUM NUMBER, @ARYON")
@ARYON OMEGA-
@ARYON P
-@ARYON POLE MODEL (EXCHANGE, @ARYON)
@ARYON QUARK
@ARYON RESONANCE
@ARYON RESONANCE @ARYON RESONANCE
@ARYON RESONANCE DEUTERON
-@ARYON RESONANCE FORMATION (USE "@ARYON RESONANCE, SCATTERING")
@ARYON RESONANCE LIGHT NUCLEUS
@ARYON RESONANCE NUCLEUS
@ARYON SIGMA
@ARYON SIGMA+
@ARYON SIGMA-
@ARYON SIGMA0
@ARYON VECTOR MESON
@ARYON XI
@ARYON XI-
@ARYON XI0
@ARYONIUM
*@ATAVIA PS
@EAM
-@EAM BLOWUP (@EAM INSTABILITY)
-@EAM CALIBRATION (@EAM MONITORING)
-@EAM CHOPPER (SEE "BUNCHING")
@EAM COOLING (FOR PROTON @EAMS; SEE ALSO "ELECTRON COOLING" OR "STOCHASTIC COOLING"; FOR ELECTRON @EAMS SEE "@EAM DAMPING")
@EAM DAMPING (FOR ELECTRON @EAMS; FOR PROTON @EAMS SEE "@EAM COOLING")
*@EAM DUMP (EXPERIMENTAL METHODS, @EAM DUMP)
*@EAM DUMPING (STORAGE RING, @EAM DUMPING)
@EAM DYNAMICS
@EAM EMITTANCE
@EAM FOCUSING
@EAM INSTABILITY
-@EAM LINES (SEE "@EAM TRANSPORT")
@EAM LOADING
@EAM LOSS
@EAM MONITORING
@EAM OPTICS
@EAM OSCILLATION
-@EAM POLARIZATION (USE "@EAM, POLARIZATION" FOR MEASUREMENT OF POLARIZATION @EGREE, SEE ALSO "POLARIZED @EAM")
-@EAM SEPARATOR (USE "PARTICLE SEPARATOR")
-@EAM STOP (SEE "@EAM DUMPING")
@EAM TRANSPORT
*@EAM-@EAM (SCATTERING, @EAM-@EAM)
@EAUTIFUL MESON
*@EAUTY (QUARK, @EAUTY)
*@ECCHI-ROLET-STORA (TRANSFORMATION, @ECCHI-ROLET-STORA)
*@ELL-STEINBERGER (MODEL, @ELL-STEINBERGER)
@ENDING MAGNET
*@ERKELEY CYCL
*@ERKELEY PS
@ERKELIUM
-@ERMAN-BJORKEN-KOGUT MODEL (TRANSVERSE MOMENTUM, HIGH)
@ERYLLIUM
-@ETA DECAY (SEMILEPTONIC DECAY)
-@ETA FUNCTION (SEE "@EAM OPTICS" OR "RENORMALIZATION GROUP, CALLAN-SYMANZIK EQUATION")
@ETATRON
@ETATRON OSCILLATION
-@ETHE-GOLDSTONE (NOT USED)
*@ETHE-HEITLER (APPROXIMATION, @ETHE-HEITLER)
@ETHE-SALPETER EQUATION
-@HABHA SCATTERING (ELECTRON POSITRON, ELASTIC SCATTERING)
*@IALAS-ZALEWSKI (MODEL, @IALAS-ZALEWSKI)
*@IANCHI IDENTITY (FIELD THEORY, @IANCHI IDENTITY)
@IBLIOGRAPHY
-@ILOCAL CURRENT ALGEBRA (FIELD THEORY, OPERATOR ALGEBRA)
-@ILOCAL OPERATOR ALGEBRA (FIELD THEORY, OPERATOR ALGEBRA)
@INDING ENERGY
@ISMUTH
*@JORKEN (SCALING, @JORKEN)
*@JORKEN LIMIT (HIGH ENERGY @EHAVIOR, @JORKEN LIMIT)
-@JORKEN MODEL (HIGH ENERGY @EHAVIOR, @JORKEN LIMIT)
-@JORKEN-JOHNSON-LOW (HIGH ENERGY @EHAVIOR, @JORKEN LIMIT)
-@JORKEN-KOGUT MODEL (USE "INCLUSIVE REACTION, EXCLUSIVE REACTION")
-@JORKEN-PASCOS (MODEL, PARTON)
-@LACK HOLE (GRAVITATION)
-@LANKENBECKLER-BRODSKY-GUNION (MODEL, CONSTITUENT INTERCHANGE)
-@LOCK TRANSFER (DIGITAL LOGIC, READOUT)
*@LOCH-GILMAN ("SUM RULE, @LOCH-GILMAN" OR "DUALITY, @LOCH-GILMAN")
-@LUMLEIN LINE (SEE "POWER SUPPLY" AND "STREAMER CHAMBER")
*@ONN ES
@OOK
*@OCSTER
@OOTSTRAP
*@ORN (APPROXIMATION, @ORN)
@ORON
-@OSE STATISTICS (@OSON, STATISTICS)
@OSON
@OSON ANTI-K0
@OSON ANTI-N
@OSON ANTI-P
@OSON ANTIBARYON
@OSON ANTIHYPERON
@OSON ANTILAMBDA
@OSON ANTINUCLEON
@OSON ANTISIGMA
@OSON ANTIXI
@OSON BARYON
@OSON BARYON RESONANCE
@OSON @OSON
@OSON DEUTERON
@OSON HYPERON
@OSON K
@OSON K+
@OSON K-
@OSON K0
@OSON LAMBDA
@OSON LIGHT NUCLEUS
@OSON MESON RESONANCE
@OSON N
@OSON NUCLEON
@OSON NUCLEUS
@OSON OMEGA-
@OSON P
@OSON PI
@OSON PI+
@OSON PI-
@OSON PI0
@OSON SIGMA
@OSON SIGMA+
@OSON SIGMA-
@OSON SIGMA0
@OSON VECTOR MESON
@OSON XI
@OSON XI-
@OSON XI0
-@OTTOM (QUARK, @EAUTY)
-@OUND ELECTRONS (ATOMIC PHYSICS)
@OUND STATE
*@OUNDARY CONDITION (MODEL, @OUNDARY CONDITION)
-@OX DIAGRAM (SEE "FEYNMAN GRAPH" (RESTRICTED USE))

B

-BPH2 (RENORMALIZATION, REGULARIZATION)
*BRANCH HIGHWAY (CAMAC SYSTEM, BRANCH HIGHWAY)
*BRANCHING RATIO (VERY RESTRICTED USE: ONLY IN CASE OF MEASURED OR CALCULATED NUMERICAL VALUE)
-BRANS-DICKE (GRAVITATION)
*BREAKUP (*FISSION, BREAKUP* OR, E.G., *P, BREAKUP*)
*BREIT-WIGNER (MODEL, BREIT-WIGNER)
BREMSSTRAHLUNG
-BROKEN SYMMETRY (SYMMETRY BREAKING)
BRONINE
*BROOKHAVEN ISABELLE STOR
*BROOKHAVEN LINAC
*BROOKHAVEN PS
BUBBLE CHAMBER
BUBBLE CHAMBER(DEUTERIUM)
BUBBLE CHAMBER(HEAVY LIQUID)
-BUBBLE CHAMBER(HELIUM) (USE *BUBBLE CHAMBER* AND *HELIUM*)
BUBBLE CHAMBER(HYDROGEN)
BUILDINGS
BUNCHING
*BYPASS (STORAGE RING, BYPASS)
-BS MODEL (*MODEL, VENEZIANO* AND *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
CAMAC SYSTEM
*CAMBRIDGE ES
*CANESCHI-PIGNOTTI (MODEL, CANESCHI-PIGNOTTI)
-CANONICAL ANTICOMMUTATION RELATIONS (USE 'ALGEBRA, COMMUTATION RELATIONS' (RESTRICTED USE))
-CANONICAL COMMUTATION RELATIONS (USE 'ALGEBRA, COMMUTATION RELATIONS' (RESTRICTED USE))
CAPTURE
-CAR (USE 'ALGEBRA, COMMUTATION RELATIONS' (RESTRICTED USE))
CARBON
*CARLITZ-KISLINGER (MODEL, CARLITZ-KISLINGER)
*CASCADE ('MODEL, CASCADE' OR 'NUCLEUS, CASCADE'; SEE ALSO 'SHOWERS' AND 'CASCADE DECAY')
*CASCADE DECAY
-CASCADE EVAPORATION MODEL (MODEL, CASCADE)
-CASIMIR OPERATOR (USE 'GROUP THEORY')
-CASTILLEJO-CALITZ-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')
-CCR (USE 'ALGEBRA, COMMUTATION RELATIONS' (RESTRICTED USE))
-CDD POLES (PARTIAL WAVE, DISPERSION RELATIONS)
*CELLO (AT PETRA: 'MAGNETIC DETECTOR, CELLO')
*CENTRAL REGION (USE 'INCLUSIVE REACTION, CENTRAL REGION')
CERAMICS
CERIUM
*CERN CYCL
*CERN MUON STOR
*CERN SPS
*CERN STOR
*CERN1 PS
-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 (ACT APPLIED)
CHANNEL CROSS SECTION (USED FOR THE INTEGRATED DIFFERENTIAL CROSS SECTION OF A CHANNEL)
*CHANNELING (EFFECT, CHANNELING)
CHARGE
*CHARGE CONJUGATION ('INVARIANCE, CHARGE CONJUGATION' OR 'VIOLATION, CHARGE CONJUGATION' OR 'QUANTUM NUMBER, CHARGE CONJUGATION')
CHARGE DISTRIBUTION (SEE ALSO '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 (SEE 'CURRENT, CHARM CHANGING')
CHARMED BARYON
-CHARMED HADRON ('CHARMED MESON' OR 'CHARMED BARYON')
CHARMED MESON
CHARMED PARTICLE
*CHARMONIUM (QUARK, CHARMONIUM)
-CHARPAK CHAMBER (PROPORTIONAL CHAMBER)
CHEMICALS
CHEMISTRY
-CHENG-DASHEN (SYMMETRY, CHIRAL)
*CHENG-HU (MODEL, CHENG-HU)
*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 'CHI/PC(3510)')
CHI(3550)
CHI/PC(3510)
*CHICAGO CYCL
*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' OR 'ALGEBRA, COMMUTATION RELATIONS' (VERY RESTRICTED USE))
-COMMUTATOR (SEE 'COMMUTATION RELATIONS')
-COMPARISON OF EXPERIMENTAL RESULTS (INTERPRETATION OF EXPERIMENTS)
-COMPILER (USE 'COMPUTER' AND 'PROGRAMMING')
-COMPLEX REGGE POLES (REGGE POLES)

C

*COMPOSITE (MODEL, COMPOSITE)
-COMPOSITE ECSCN (*MODEL, ECSCN* AND *MODEL, COMPOSITE*)
-COMPOSITE PARTICLE MODEL (MODEL, COMPOSITE)
-COMPOUND NUCLEUS (NUCLEAR REACTION)
COMPOUNDS
COMPTON SCATTERING
COMPUTER
CONCRETE
*CONDENSATION (SEE *PI, CONDENSATION* OR *K, 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 CESR STOR
*CORNELL ES
CORRECTION
CORRELATION
CORRELATION FUNCTION
COSMIC RADIATION
-COSMOLOGY (SEE *ASTROPHYSICS*)
*COSTS
-COTTINGHAM FORMULA (MASS DIFFERENCE)
*COULOMB
-COULOMB DISSOCIATION (NUCLEAR REACTION, COULOMB SCATTERING)
*COULOMB GAUGE (GAUGE FIELD THEORY, COULOMB GAUGE)
*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 BALL (AT SPEAR: *MAGNETIC DETECTOR, CRYSTAL BALL*)
-CRYSTAL SCINTILLATOR (USE *SCINTILLATION COUNTER, CRYSTAL*)
*CUMULATIVE PRODUCTION (SEE *HADRON NUCLEUS, CUMULATIVE PRODUCTION*)
CURIUM
CURRENT (RESTRICTED USE, SEE ALSO *NEUTRAL CURRENT*, *CHARGED CURRENT* OR *WEAK CURRENT*)
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 ANTI-D
D(1285)
D*
D*(2010)
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D-
*D/F RATIO (COUPLING CONSTANT, D/F RATIO)
-DAC (USE *ANALOG CIRCUIT*)
*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* OR *INTERPRETATION OF EXPERIMENTS*)
DATA ANALYSIS METHOD (RESTRICTED USE)
-DATA COLLECTION (SEE *DATA COMPILATION*)
DATA COMPILATION
-DATA HANDLING (SEE *PROGRAMMING*)
-DATA PRESENTATION (SEE *INTERPRETATION OF EXPERIMENTS* OR *DATA ANALYSIS METHOD*)
-DATA PROCESSING (SEE *COMPUTER* OR *PROGRAMMING*)
*DE SITTER (*GROUP THEORY, DE SITTER* OR *ALGEBRA, DE SITTER*)
DECAY (RESTRICTED USE, IF POSSIBLE USE MORE SPECIFIC TERM)
-DECAY FRACTION (USE *DECAY RATE*)
*DECAY MODES
*DECAY RATE (PARTICLE, DECAY RATE)
*DECAY WIDTH (PARTICLE, DECAY WIDTH)
*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(970)
DENSITY
*DENSITY MATRIX (GENERALLY *SPIN, DENSITY MATRIX*)
DEPENDENCE (RESTRICTED USE)
*DEPOLARIZATION (POLARIZATION, DEPOLARIZATION)
-DESER-GILBERT-SUDARSHAN (SEE *SPECTRAL REPRESENTATION*)
*DESY DORIS STOR (AT HAMBURG)
*DESY ES (AT HAMBURG)
*DESY PETRA STOR (AT HAMBURG)
-DETECTION (*COUNTERS AND DETECTORS* OR *MEASUREMENT* OR *PARTICLE IDENTIFICATION*)
-DETECTOR (USE MORE SPECIFIC KEYWORDS)
DEUTERIUM (SEE ALSO *DEUTERON*)
DEUTERON (SEE ALSO *DEUTERIUM*)
DEUTERON DEUTERON
DEUTERON LIGHT NUCLEUS
DEUTERON NUCLEUS
*DIBARYON (BARYON RESONANCE, DIBARYON)
*DIFFERENCE
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)
-DIFFRACTIVE EXCITATION (MODEL, DIFFRACTION)
-DIFFRACTIVE PRODUCTION (DIFFRACTION, PRODUCTION)
DIFFUSION
-DIFFUSION CHAMBER (CLOUD CHAMBER)
DIGITAL LOGIC (*DIGITAL LOGIC, REACOLT* OR *DIGITAL LOGIC, INTERFACE*)
-DIGITAL-ANALOG CONVERTER (SEE *ANALOG CIRCUIT*)
-DIGITAL-DIGITAL CIRCUIT (DIGITAL LOGIC)
-DIMAN (SEE, E.G., *FINAL STATE, (2K)*)
-DILATATION (USE *SYMMETRY, DILATION*)
*DILATION (SYMMETRY, DILATION)
-DILATON (USE *SYMMETRY, DILATION*)
*DILEPTON (FINAL STATE, DILEPTON)
*DILUTE GAS (APPROXIMATION, DILUTE GAS)
*DIMUON (FINAL STATE, DIMUON)
*DIP (DIFFERENTIAL CROSS SECTION, DIP)
-DIP MECHANISM (NOT USED)
*DIPION
-DIPOLE (SEE *FORM FACTOR*)
-DIPOLE MAGNET (SEE *BENDING MAGNET*)
*DISGLARK (GLARK, DISGLARK)
*DIRAC (FIELD EQUATIONS, DIRAC)
-DIRAC PARTICLE (*FERMION*, SEE ALSO *FIELD EQUATIONS* OR *MAGNETIC MONOPOLE*)
*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: *SPECTRA* OR *ANGULAR DISTRIBUTION* OR *ENERGY SPECTRUM* OR *MASS SPECTRUM*)
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*)
*DOWN (GLARK, DOWN)
-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-HIDA-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 (PROPAGATOR, RENORMALIZATION)
DRIFT CHAMBER
*DROPLET (MODEL, DROPLET)
-DUAL ABSORPTIVE MODEL (MODEL, ABSORPTION)
-DUAL AMPLITUDE WITH MANDELSTAM ANALYTICITY (*MODEL, DUAL RESONANCE* AND *ANALYTIC PROPERTIES*)
-DUAL DIFFRACTION (*DIFFRACTION* AND *DUALITY*)
DUAL FIELD THEORY (SEE ALSO *FIELD THEORY, DUALITY*)
-DUAL MODEL (SEE *MODEL, DUAL RESONANCE* OR *DUALITY*)
*DUAL RESONANCE (MODEL, DUAL RESONANCE)
-DUAL-LOOP MODEL (DUAL FIELD THEORY, HIGHER-ORDER)

D

DUALITY (USUALLY WITHOUT "REGGE POLES")
#DUBNA CYCL
#DUBNA PS
#DUFFIN-KEMMER (ACCEL, DUFFIN-KEMMER)
-DUFFIN-KEMMER (FIELD EQUATIONS)
-DUFFIN-KEMMER-PETIAU (FIELD EQUATIONS)
-DWBA (APPROXIMATION, DISTORTED WAVE BORN)
-DYNAMIC GROUP (GROUP THEORY)
-DYNAMICAL SYMMETRY BREAKING (SEE "SYMMETRY BREAKING")

#DYON (FIELD EQUATIONS, DYON)
-DYSON REPRESENTATION (SPECTRAL REPRESENTATION)
#DYSON-SCHWINGER (FIELD EQUATIONS, DYSON-SCHWINGER)
DYSPROSIUM
DZ
DZ ANTI-DZ

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)
*EFFICIENCY (COUNTERS AND DETECTORS, EFFICIENCY)
-EIGENSTATE (SEE *ENERGY EIGENSTATE*)
-EIGHTFOLD WAY (SYMMETRY, SU(3))
*EIKONAL (*APPROXIMATION, EIKONAL* OR *REGGE CUT*)
*EINSTEIN (FIELD EQUATIONS, EINSTEIN)
*EINSTEIN-MAXWELL (FIELD EQUATIONS, EINSTEIN-MAXWELL)
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
-ELECTROEXCITATION
ELECTROFISSION (FISSION DUE TO ELECTRONS OR NUCLEI)
*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 (ALSO USED 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 (BEAM COOLING, ELECTRON COOLING)
ELECTRON DEUTERON
ELECTRON ELECTRON (ALSO USED WHEN CHARGE IS IRRELEVANT)
ELECTRON HADRON
ELECTRON HYPERON
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 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=O 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*; SEE ALSO *MASS ENHANCEMENT*)
EPSILON(1200)
-EQUAL-TIME COMMUTATOR (*CURRENT ALGEBRA, COMMUTATION RELATIONS* OR *FIELD THEORY, COMMUTATION RELATIONS*)
-EQUILIBRIUM (SEE *STATISTICAL MECHANICS* OR *THERMODYNAMICS*)
*EQUIVALENT PHOTON (APPROXIMATION, EQUIVALENT PHOTON)
ERBIUM
*ERROR ES
*ERICSON FLUCTUATIONS (STATISTICS, ERICSON FLUCTUATIONS)
-ETA ETA MIXING* (INTERFERENCE, ETA(549)-ETA(958))
*ETA(E) (POSTULATED PARTICLE, ETA(E))
*ETA(C) (POSTULATED PARTICLE, ETA(C))
ETA(C) (POSTULATED PARTICLE, ETA(C)*)
-ETA(1070) (SEE *S*(1000)*)
ETA(549)
*ETA(549)-ETA(958)
-ETA(700-1000) (EPSILON(1200))
ETA(958)
*EUCLIDEAN (FIELD THEORY, EUCLIDEAN)
EUROPIUM
-EVAPORATION MODEL (MULTIPLE PRODUCTION)
-EVENT SELECTOR (SEE *MICROPROCESSOR, PREPROCESSING*)
EXCHANGE
*EXCHANGE DEGENERACY (USED IN CONNECTION WITH REGGE POLES)
-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 F, 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)

E

*EXTENSIVE (SPCNERS, EXTENSIVE)
*EXTERNAL (SYMMETRY, EXTERNAL)

*EXTERNAL FIELD (*FIELD THEORY, EXTERNAL FIELD* (RESTRICTED USE))

F

F
#F MESON DOMINANCE (MODEL, F MESON DOMINANCE)
F(1260)
F(1514)
F0
F00
-F/D RATIO (COUPLING CONSTANT, D/F RATIO)
-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
FERMION ANTI-K
FERMION ANTI-K0
FERMION ANTI-N
FERMION ANTI-P
FERMION ANTIBARYON
FERMION ANTIFERMION
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 K
FERMION K+
FERMION K-
FERMION K0
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 PI0
FERMION POSITRON
FERMION SIGMA
FERMION SIGMA+
FERMION SIGMA-
FERMION SIGMA0
FERMION VECTOR MESON
FERMION XI
FERMION XI-
FERMION XI0
FERMIUM
#FERROMAGNET (USE IN *MODEL, FERROMAGNET*)
-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 GAUGE)
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-RAYNAL MODEL (QUARK)
#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, DIBLON*)
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)
#FIVE-DIMENSIONAL (SEE *FIELD THEORY, FIVE-DIMENSIONAL* OR *QUANTUM ELECTRODYNAMICS, FIVE-DIMENSIONAL* OR *QUANTUM CHROMODYNAMICS, FIVE-DIMENSIONAL* OR *QUANTUM FLAVORDYNAMICS, FIVE-DIMENSIONAL*)
-FIXED POINT (SEE *RENORMALIZATION GROUP* OR *RENORMALIZATION GROUP, CALLAN-SYMANZIK EQUATION*)
#FIXED POLE (MODEL, FIXED POLE)
#FIXED-ANGLE
-FIXED-T DISPERSION RELATIONS (DISPERSION RELATIONS)
#FLASH TUBE (SPARK CHAMBER, FLASH TUBE)
#FLAVOR (QUARK, FLAVOR)
#FLAVOR CHANGING (SEE *CURRENT, FLAVOR CHANGING*)
#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)
#FOURUSH (COSMIC RADIATION, FOURUSH)
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*)
-FORWARD-BACKWARD SYMMETRY (USE *ANGULAR DISTRIBUTION*)
#FOUR-COMPONENT NEUTRINO (MODEL, FOUR-COMPONENT NEUTRINO)
#FOUR-DIMENSIONAL (SEE *FIELD THEORY, FOUR-DIMENSIONAL* OR *QUANTUM ELECTRODYNAMICS, FOUR-DIMENSIONAL* OR *QUANTUM CHROMODYNAMICS, FOUR-DIMENSIONAL* OR *QUANTUM FLAVORDYNAMICS, FOUR-DIMENSIONAL*)
#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*)
-FRAGMENTATION REGION (SEE *FRAGMENTATION*)
FRANCIUM
#FRASCATI ES
#FRASCATI SICH
-FREDHOLM OPERATOR (NOT USED)
#FRESCA
-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

F -FUNDAMENTAL LENGTH (FUNDAMENTAL CONSTANT, LENGTH)

FUSION
F1(1940)

*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
*GEIGER-MUELLER (*COUNTERS AND DETECTORS, GEIGER-MUELLER*)
*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, P1-RHO(765)-OMEGA(784))
*GELL-MANN-ZWEIG (CLARK, 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)
-GIM (MODEL, GLASHOW-ILIOPOULOS-MAIANI)
*GLASGOW LINAC (ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*GLASHOW-ILIOPOULOS-MAIANI (MODEL, GLASHOW-ILIOPOULOS-MAIANI)
GLASS
*GLAUBER (MODEL, GLAUBER)
-GLAUBER-MARGOLIS MODEL (MODEL, GLAUBER)
*GLUEBALL (MODEL, GLUEBALL)
GLUON
GLUON GLUON
GLUON PARTON
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 (GRAVITATION, RADIATION)
*GRAVITINO (POSTULATED PARTICLE, GRAVITINO)
*GRAVITON (POSTULATED PARTICLE, GRAVITON)
-GREEN FUNCTION (SEE *N-POINT FUNCTION* OR *VERTEX FUNCTION* OR *PROPAGATOR*)
*GRIBOV (MODEL, GRIBOV)
-GRIBOV-FOKKER-PLANCK (PARTIAL WAVE, ANALYTIC PROPERTIES)
GROUP THEORY
-GUPTA-BLEULER (QUANTUM ELECTRODYNAMICS)

G

H(2050)
HADRON
HADRON ANTI-K
HADRON ANTI-K0
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 K
HADRON K+
HADRON K-
HADRON K0
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 PI0
HADRON QUARK
-HADRON RESONANCE ("MESON RESONANCE" AND "BARYON RESONANCE")
HADRON SIGMA
HADRON SIGMA+
HADRON SIGMA-
HADRON SIGMA0
HADRON SPECTROSCOPY (NOT USED FOR APPARATUS)
HADRON VECTOR MESON
HADRON XI
HADRON XI-
HADRON XI0
*HADRONIC
*HADRONIC ATOM
*HADRONIC COMPONENT (COSMIC RADIATION, HADRONIC COMPONENT)
*HADRONIC DECAY (USE FOR STRONG DECAYS ONLY; OTHERWISE SEE "NONLEPTONIC DECAY")
*HADROPRODUCTION
HAFNIUM
-HAGEDORN MODEL (MODEL, THERMODYNAMICAL)
-HAGEDORN-FRAUTSCHI (SEE "BOOTSTRAP")
*HAN-NAMBU (USE "QUARK, HAN-NAMBU")
*HARARI (MODEL, HARARI)
-HARARI-FREUND MODEL (SEE "QUALITY")
-HARARI-ROSNER MODEL (SEE "QUALITY")
*HARD CORE (MODEL, HARD CORE)
-HARD MESON (CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS)
-HARD PHOTON (RADIATIVE CORRECTION)
-HARD PION (CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS)
*HARD SCATTERING ("MODEL, HARD SCATTERING" SEE ALSO "MODEL, CONSTITUENT INTERCHANGE" OR "MODEL, PARTON")
-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 MESON (SEE "PSI MESONS" OR "UPSILON MESONS")
-HEAVY WATER (DEUTERON, WATER)
-HEAVY-LEPTON ANTINEUTRINO (ANTINEUTRINO/L/)
-HEAVY-LEPTON NEUTRINO (NEUTRINO/L/)
*HEISENBERG ("FIELD THEORETICAL MODEL, HEISENBERG")
-HEISENBERG MODEL (USE "FIELD THEORETICAL MODEL, HEISENBERG" OR "MODEL, FERROMAGNET")
HELICITY
HELIUM
-HIDDEN VARIABLES (QUANTUM MECHANICS)
*HIGGS (MODEL, HIGGS)
*HIGGS PARTICLE (POSTULATED PARTICLE, HIGGS PARTICLE)
-HIGGS-KIBBLE (FIELD THEORETICAL MODEL, WEINBERG)
*HIGH (MOMENTUM TRANSFER, HIGH)
*HIGH ENERGY BEHAVIOR (ONLY FOR THEORETICAL MODELS; USED ONLY WHEN HIGH ENERGY BEHAVIOR IS NOT IMPLICATED BY OTHER KEYWORDS GIVEN)
-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 NO ANTI-NO))
-HILBERT SPACE (USE "LINEAR SPACES")
HODOSCOPE
-HODOSCOPE CHAMBER (SEE "SPARK CHAMBER, FLASH TUBE")
HOLMIUM
*HOM (MODEL, HOM)
-HYBRID MODEL ("MODEL, REGGEON 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 LIGHT NUCLEUS
HYPERON NUCLEUS
HYPERON VECTOR MESON
*HYPERONIC ATOM

*IIZUKA-CHLEC-ZBEIC (SELECTION RULE, IIZUKA-CHLEC-ZBEIC)
*IMAGE INTENSIFIER
*IMPACT PARAMETER (MODEL, IMPACT PARAMETER)
*IMPULSE (APPROXIMATION, IMPULSE)
-IMPURITY (SEE *ADMIXTURE*)
-INCLUSIVE PRODUCTION
INCLUSIVE REACTION
*INCOHERENT INTERACTION
*INCOHERENT PRODUCTION
*INDEFINITE METRIC (*FIELD THEORY, INDEFINITE METRIC* OR *AXIOMATIC FIELD THEORY, INDEFINITE METRIC*)
*INDEPENDENT EMISSION (MODEL, INDEPENDENT EMISSION)
*INDEPENDENT PARTICLE (MODEL, INDEPENDENT PARTICLE)
INDIUM
*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 EQUATIONS, INSTANTON)
-INTEGRAL REPRESENTATION (USE *SPECTRAL REPRESENTATION*)
-INTENSITY (SEE *YIELD* OR *FLUX*)
*INTERACTION (RESTRICTED USE, IF POSSIBLE USE MORE SPECIFIC TERM)
INTERFACE (ALSO *DIGITAL LOGIC, INTERFACE* OR *ANALOG LOGIC, INTERFACE* OR *COMPUTER, INTERFACE* OR *INTERFACE, EXPERIMENTAL EQUIPMENT*)
INTERFERENCE
INTERMEDIATE BOSON (SEE ALSO *POSTULATED PARTICLE, W+* OR *POSTULATED PARTICLE, W-* OR *POSTULATED PARTICLE, ZO*)
-INTERMEDIATE NUCLEUS (USE *EXCITED NUCLEUS*)
-INTERMEDIATE STATE (SEE *EXCHANGE* OR *FINAL STATE* OR *CASCADE DECAY*)
*INTERNAL (SYMMETRY, INTERNAL)
-INTERNAL CONVERSION (SEE *PARTICLE SOURCE* OR *NUCLEAR REACTION*)
-INTERNUCLEAR CASCADE (USE *NUCLEUS, CASCADE*)
*INTERPRETATION OF EXPERIMENTS
*INTRANUCLEAR CASCADE (MODEL, INTRANUCLEAR CASCADE)
*INTRODUCTORY (RESTRICTED USE, MOSTLY IN *REVIEW, INTRODUCTORY*)
INVARIANCE
-INVARIANT PHASE SPACE (MODEL, STATISTICAL)
*INVERSE
-INVERSE SCATTERING (USE *INVERSE SCATTERING METHOD*)
INVERSE SCATTERING METHOD
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 PEP; *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 ISR*)

-J(3100) (USE *J/PSI(3100)*)
J/PSI(3100)
-JACOB-SLANSKY (MODEL, MULTIPLE PRODUCTION)
*JADE (AT PETRA: *MAGNETIC DETECTOR, JADE*)
JET
*JIN-MARTIN ECUAC (HIGH ENERGY BEHAVIOR, JIN-MARTIN ECUAC)
-JOHNSON-BAKER-WILLEY (QUANTUM ELECTRODYNAMICS)
*JOHNSON-TREIMAN (*SYMMETRY, JOHNSON-TREIMAN* AND *SYMMETRY, SU(6)*)
*JOINT DECAY
*JONA-LASINIO-MANEL (MODEL, JONA-LASINIO-MANEL)
*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 K
K K+
K K-
K K0
K LAMBDA
K LIGHT NUCLEUS
K MESON RESONANCE
K N
K NUCLEON
K NUCLEUS
K P
K SIGMA
K VECTOR MESON
-K(1240) (G REGION)
-K(1280-1400) (G REGION)
K+
K+ ANTI-N
K+ ANTI-P
K+ ANTIBARYON
K+ ANTINUCLEON
K+ BARYON
K+ BARYON RESONANCE
K+ DEUTERON
K+ HYPERON
K+ K+
K+ K-
K+ LAMBDA
K+ LIGHT NUCLEUS
K+ MESON RESONANCE
K+ N
K+ NUCLEON
K+ NUCLEUS
K+ P
K+ SIGMA
K+ VECTOR MESON
-K+ EXCHANGE (EXCHANGE, K*(892))
K*(1420)
K(1780) (POSTULATED PARTICLE, 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- K-
K- LAMBDA
K- LIGHT NUCLEUS
K- MESON RESONANCE
K- N
K- NUCLEON
K- NUCLEUS
K- P
K- VECTOR MESON
-KAELLEN-LEHMANN REPRESENTATION (SPECTRAL REPRESENTATION)
-KAPPA(1250) (USE *PI K, PARTIAL WAVE*)
*KEK PS (AT TSUKUBA, JAPAN)
*KEK TRISTAN STOR (AT TSUKUBA, JAPAN)
*KHARKOV LINAC
-KHURI REPRESENTATION (MODEL, REGGE POLES)
-KIBBLE-HIGGS (FIELD THEORETICAL MODEL, WEINBERG)
-KICKER MAGNET (PULSED MAGNET)
*KIKKAWA-SAKITA-VIRASORO (MODEL, KIKKAWA-SAKITA-VIRASORO)
-KINEMATIC SUPERSTRUCTURE (QUALITY)
KINEMATICS
*KINK (FIELD EQUATIONS, KINK)
-KINK SOLUTION (USE *FIELD EQUATIONS, KINK*)
*KLEIN-GORDON (FIELD EQUATIONS, KLEIN-GORDON)
-KLYSTRON (SEE *RF SYSTEM*)
*KNC (SCALING, KNC)
-KOBA-NIELSEN (MODEL, DUAL RESONANCE)
-KOBA-NIELSEN-OLESEN SCALING (SCALING, KNC)
*KOBAYASHI-MASKAWA (FIELD THEORETICAL MODEL, KOBAYASHI-MASKAWA)
-KOGUT-SUSSKIND (USE *MODEL, PARTON*)
KORTEWEG-DE VRIES (FIELD EQUATIONS, KORTEWEG-DE VRIES)
-KROLL-RUDERMAN (FIELD THEORY, LOW-ENERGY THEOREM)
KRYPTON
-KUTI-WEISSKOPF (SEE *MODEL, QUARK PARTON* AND *SCALING* AND *DEEP INELASTIC SCATTERING*)
K0
K0 ANTI-K0
K0 ANTI-N
K0 ANTI-P
K0 ANTIBARYON
K0 ANTINUCLEON
K0 BARYON
K0 BARYON RESONANCE
K0 DEUTERON
K0 K+
K0 K-
K0 K0
K0 LAMBDA
K0 LIGHT NUCLEUS
K0 MESON RESONANCE
K0 N
K0 NUCLEON
K0 NUCLEUS
K0 P
K0 VECTOR MESON
K0(L)
*K0(L)-K0(S) (MASS DIFFERENCE, K0(L)-K0(S))
K0(S)

L

L(1770)
*LADDER (APPROXIMATION, LADDER)
-LAGRANGIAN FIELD THEORY (FIELD THEORY)
-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 LAMBDA
LAMBDA LIGHT NUCLEUS
LAMBDA NUCLEUS
LAMBDA SIGMA
LAMBDA VECTOR MESON
LAMBDA(1405)
LAMBDA(1520)
LAMBDA(1670)
LAMBDA(1690)
LAMBDA(1815)
LAMBDA(1830)
LAMBDA(2100)
LAMBDA(2350)
LAMBDA(2585)
LAMBDA/C(2260)
-LANGTON (SEE 'HEAVY LEPTON' AND 'STRONG INTERACTION')
*LANPF LINAC (AT LOS ALAMOS)
*LANDAU GAUGE (GAUGE FIELD THEORY, LANDAU GAUGE)
-LANDAU MODEL (MODEL, HYDRODYNAMICAL)
LANTHANUM
*LASER (GENERALLY, 'OPTICS, LASER')
*LATTICE ('FIELD THEORY, LATTICE' OR 'APPROXIMATION, LATTICE')
-LATTICE FIELD THEORY (SEE 'FIELD THEORY, LATTICE')
LAWRENCIUM
LEAD
-LEAD-GLASS COUNTER (SEE 'TOTAL-ABSORPTION COUNTER')
*LEADING LOGARITHM (APPROXIMATION, LEADING LOGARITHM)
*LEADING PARTICLE (MULTIPLE PRODUCTION, LEADING PARTICLE)
-LEAST-SQUARES ANALYSIS (USE 'STATISTICAL ANALYSIS')
LECTURES
*LEE (FIELD THEORETICAL MODEL, LEE)
*LEFT-HANDED (CURRENT, LEFT-HANDED)
-LEFT-RIGHT SYMMETRY (SEE 'MULTIPLE PRODUCTION, CORRELATION')
-LEHMANN ELLIPSE (ANALYTIC PROPERTIES)
-LEHMANN-KAELLEN-LUMZAHN (SPECTRAL REPRESENTATION)
-LEHMANN-SYMANZIK-ZIMMERMANN FORMALISM (FIELD THEORY)
*LENGTH ('FUNDAMENTAL CONSTANT, LENGTH'; SEE ALSO 'SCATTERING LENGTH' OR 'RADIATION LENGTH')
*LENINGRAD ICFFE CYCL
*LENINGRAD NUCL INST CYCL
LEPTON
LEPTON ANTI-K0
LEPTON ANTI-K
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 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
*LEPTONIC DECAY
-LEPTONIC NUMBER (USUALLY 'CONSERVATION LAW, LEPTON'; SEE ALSO 'QUANTUM NUMBER, LEPTON')
-LEPTONIC CLARK (CLARK, LEPTONIC)
*LEPTOPRODUCTION (SEE ALSO 'ELECTROPRODUCTION' OR 'NEUTRINOPRODUCTION')
-LEVEL CONVERTER (DIGITAL LOGIC)
-LEXAN (USE 'PLASTICS, TRACK SENSITIVE')
*LIE ('GROUP THEORY, LIE' OR 'ALGEBRA, LIE')
*LIFETIME (PARTICLE, LIFETIME)
-LIGHT CONE ALGEBRA (LIGHT CONE BEHAVIOR)
LIGHT CONE BEHAVIOR
LIGHT NUCLEUS (UP TO MASS NUMBER 20 (INCL.))
LIGHT NUCLEUS LIGHT NUCLEUS
LIGHT NUCLEUS NUCLEUS
-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 DATA ANALYSIS')
-LOGIC (IF DIGITAL, 'DIGITAL LOGIC', IF IN NANOSECOND RANGE, 'FAST LOGIC')
-LOGIC GATE (DIGITAL LOGIC)
*LONG-RANGE (USE ONLY AS 'CORRELATION, LONG-RANGE', OR 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' OR 'PERTURBATION THEORY, HIGHER-ORDER')
*LORENTZ ('GROUP THEORY, LORENTZ' (RESTRICTED USE) OR 'INVARIANCE, LORENTZ' (RESTRICTED USE) OR 'TRANSFORMATION, LORENTZ')
-LOS ALAMOS LINAC (USE 'LAMPF LINAC', ONLY FOR EXPERIMENTAL RESULTS GAINED THERE)
*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
LUTETIUM

M

*M I T LINAC
*MAC (AT REF: *MAGNETIC DETECTOR, MAC*)
MAGNESIUM
MAGNET
*MAGNETIC (SEE ALSO *MAGNETIC FIELD* OR *MAGNETIC MOMENT* OR *POSTULATED PARTICLE, MAGNETIC MONOPOLE* OR *MAGNETIC SPECTROMETER* OR *MAGNETIC DETECTOR*)
-MAGNETIC CHARGE (CHARGE, MAGNETIC)
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)
MAGNETOSTRICTIVE (SPARK CHAMBER, MAGNETOSTRICTIVE)
MANDELSTAM REPRESENTATION
MANGANESE
MANUAL
MANY-BODY PROBLEM
*MANY-BODY (EXCHANGE, MANY-BODY)
*MARK I (AT SPEAR; *MAGNETIC DETECTOR, MARK I*)
*MARK II (AT SPEAR; *MAGNETIC DETECTOR, MARK II*)
*MARK J (AT PETRA; *MAGNETIC DETECTOR, MARK J*)
MASS
MASS DIFFERENCE
MASS ENHANCEMENT
MASS FORMULA
*MASS GENERATION (FIELD THEORY, MASS GENERATION)
*MASS NUMBER
MASS RATIO
-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*)
*MAXWELL (FIELD EQUATIONS, MAXWELL)
*MEAN FIELD (APPROXIMATION, MEAN FIELD)
MEASUREMENT
MECHANICAL ENGINEERING
MECHANICS
-MEDICINE (SEE *HEALTH PHYSICS* OR *NUCLEAR MEDICINE*)
-MELLIN TRANSFORMATION (TRANSFORMATION)
*MELOSH (TRANSFORMATION, MELOSH)
-MEMBRAN MODEL (SEE *MODEL, BAG*)
-MEMORY (COMPUTER)
MENDELEVIUM
MERCURY
*MERON (FIELD EQUATIONS, MERON)
-MERON SOLUTION (USE *FIELD EQUATIONS, MERON*)
*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 FACTORY (FOR ACCELERATOR ASPECTS SEE *SYNCHRO-CYCLOTRON* OR *LINEAR ACCELERATOR, P*, FOR RESULTS GAINED THERE, SEE *LAMPF LINAC*, *TRIUMF CYCL*, *SIN CYCL*)
MESON HYPERON
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 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
-MINKOWSKI SPACE (FIELD THEORY)
*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
*MOLECULAR PHYSICS
*MOLECULE
MOLYBDENUM
MOMENT
MOMENTUM
*MOMENTUM RESOLUTION (COUNTERS AND DETECTORS, MOMENTUM RESOLUTION)
MOMENTUM SPECTRUM
MOMENTUM TRANSFER
MONITORING (SEE ALSO *BEAM MONITORING*)
*MONOCHROMATIC BEAM (PHOTON, MONOCHROMATIC BEAM)
*MONOPOLE (FIELD EQUATIONS, MONOPOLE)
-MONOPOLE SOLUTION (USE *FIELD EQUATIONS, MONOPOLE*)
*MONTE CARLO (NUMERICAL CALCULATIONS, MONTE CARLO)

M

*ACCELERATORS
*ACCELERATORS LINAC
*ACCELERATORS PI PS
*ACCELERATOR (ACCEL, ACCELERATOR)
*ACCELERATOR PHYSICS (ACCEL, ACCELERATOR)
*ACCELERATOR PROTECTION (ACCEL, ACCELERATOR)
*ACCELERATOR SAFETY (ACCEL, ACCELERATOR)
*ACCELERATOR TECHNOLOGY (ACCEL, ACCELERATOR)
*ACCELERATOR TESTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING CALCULATIONS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING EXPERIMENTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING MEASUREMENTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING MODELS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TESTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING CALCULATIONS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING EXPERIMENTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING MEASUREMENTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING MODELS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TESTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING CALCULATIONS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING EXPERIMENTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING MEASUREMENTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING MODELS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING TESTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING CALCULATIONS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING EXPERIMENTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING MEASUREMENTS (ACCEL, ACCELERATOR)
*ACCELERATOR TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING TUNNEL SHIELDING MODELS (ACCEL, ACCELERATOR)
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*ACCELERATOR TUNNEL SHIELDING

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 LAMBDA
N LIGHT NUCLEUS
N N
N NUCLEUS
N OMEGA-
-N P (USE *P N, ...* AND *N, EEAM*)
N SIGMA
N SIGMA+
N SIGMA-
N SIGMA0
N VECTOR MESON
N XI
N XI-
N XI0
N(1470)
N(1520)
N(1535)
N(1670)
N(1688)
N(1700)
N(1780)
N(1810)
N(2190)
N(2220)
N(2650)
N(3030)
-N* (SEE *NUCLEON RESONANCE* FOR I=1/2)
-N-PION EXCHANGE (EXCHANGE, MULTIPION)
N-POINT FUNCTION
-N/D METHOD (PARTIAL WAVE, DISPERSION RELATIONS)
-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)
-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 K
NEUTRINO K+
NEUTRINO K-
NEUTRINO K0
NEUTRINO LAMBDA
NEUTRINO LEPTON
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 SIGMA
NEUTRINO SIGMA+
NEUTRINO SIGMA-
NEUTRINO SIGMA0
NEUTRINO VECTOR MESON
NEUTRINO XI
NEUTRINO XI-
NEUTRINO XI0
NEUTRINO/E/
NEUTRINO/L/ (USE FOR THE HEAVY-LEPTON NEUTRINO)
NEUTRINO/MU/
NEUTRINO/TAU/
*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 PARTICLE
NICKEL
*NIMROD PS (AT CHILTON, RUTHERFORD)
*NINA PS (AT DARESBURY)
NIOBIUM
NITROGEN
*NIU (POSTULATED PARTICLE, NIU)
NOBELIUM
-NOETHER'S THEOREM (*GAUGE THEORY* AND *CONSERVATION LAW*)
*NONABELIAN (*FIELD THEORY, NONABELIAN*; NOT USED TOGETHER WITH *GAUGE FIELD THEORY, YANG-MILLS*)
*NONDIFFRACTIVE
*NONLEPTONIC DECAY (USED FOR WEAK DECAYS ONLY)
*NONLINEAR
*NONLOCAL (SEE *FIELD THEORY, NONLOCAL*)
*NONPERTURBATIVE
*NONPOLYNOMIAL (FIELD THEORETICAL MODEL, NONPOLYNOMIAL)
*NONRELATIVISTIC
*NONRENORMALIZABLE (FIELD THEORETICAL MODEL, NONRENORMALIZABLE)
*NONSTRANGE (RESONANCE, NONSTRANGE)
-NORMAL PRODUCT (NOT USED)
*NOVA (MODEL, NOVA)
*NOVOSIBIRSK NAP STOR
*NOVOSIBIRSK STOR2
*NOVOSIBIRSK STOR3
*NOVOSIBIRSK STOR4
-NUCLEAR CASCADE (NUCLEUS, CASCADE)
NUCLEAR EMULSION
-NUCLEAR EMULSION CHAMBER (USE *NUCLEAR EMULSION* AND POSSIBLY *TOTAL-ABSORPTION COUNTER*)
NUCLEAR ENGINEERING
NUCLEAR FORCE
NUCLEAR 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 ANTIHYPERON
NUCLEON ANTILAMBDA
NUCLEON ANTINUCLEON
NUCLEON ANTISIGMA
NUCLEON ANTIXI
NUCLEON BARYON RESONANCE
NUCLEON DEUTERON
NUCLEON HYPERON
-NUCLEON ISOBAR (NUCLEON RESONANCE)
*NUCLEON J/PSI(3100)
NUCLEON LAMBDA
NUCLEON LIGHT NUCLEUS
NUCLEON N
NUCLEON NUCLEON
NUCLEON NUCLEUS
NUCLEON OMEGA-
NUCLEON QUARK
NUCLEON RESONANCE
-NUCLEON RESONANCE FORMATION (USE *NUCLEON RESONANCE, SCATTERING*)

N

NUCLEON SIGMA
NUCLEON SIGMA+
NUCLEON SIGMA-
NUCLEON SIGMA0
NUCLEON VECTOR MESON
NUCLEON XI
NUCLEON XI-
NUCLEON XI0
NUCLEUS
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

*C(N) (*SYMMETRY, C(N)* OR *GROUP THEORY, C(N)* OR *FIELD THEORY, C(N)* OR *GAUGE FIELD THEORY, C(N)*)
*C(2) (*SYMMETRY, C(2)* OR *GROUP THEORY, C(2)* OR *FIELD THEORY, C(2)* OR *GAUGE FIELD THEORY, C(2)*)
*C(3) (*SYMMETRY, C(3)* OR *GROUP THEORY, C(3)* OR *FIELD THEORY, C(3)* OR *GAUGE FIELD THEORY, C(3)*)
*C(3,1) (*SYMMETRY, C(3,1)* OR *GROUP THEORY, C(3,1)* OR *FIELD THEORY, C(3,1)* OR *GAUGE FIELD THEORY, C(3,1)*)
*C(4) (*SYMMETRY, C(4)* OR *GROUP THEORY, C(4)* OR *FIELD THEORY, C(4)* OR *GAUGE FIELD THEORY, C(4)*)
*C(4,2) (*SYMMETRY, C(4,2)* OR *GROUP THEORY, C(4,2)* OR *FIELD THEORY, C(4,2)* OR *GAUGE FIELD THEORY, C(4,2)*)
*CAK RIDGE LINAC
-CBEC (EXCHANGE, ONE-BOSON)
*CCTET (QUARK, CCTET)
*CCTET DOMINANCE (MODEL, CCTET DOMINANCE)
*CCTONION (ALGEBRA, CCTONION)
-CCTUPOLE LENS (QUADRUPOLE LENS, SPECIAL FOCUSING)
*CFF-LINE (TRACK DATA ANALYSIS, OFF-LINE)
-CFF-MASS-SHELL (MODEL, OFF-SHELL)
*CFF-SHELL (MODEL, OFF-SHELL)
-CKUBO-ZWEIG RULE (USE *SELECTION RULE, IIZUKA-OKUBO-ZWEIG*)
-CKUBO-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- LIGHT NUCLEUS
OMEGA- NUCLEUS
OMEGA- OMEGA-
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-DIMENSIONAL (SEE *FIELD THEORY, ONE-DIMENSIONAL* OR *QUANTUM ELECTRODYNAMICS, ONE-DIMENSIONAL* OR *QUANTUM CHROMODYNAMICS, ONE-DIMENSIONAL* OR *QUANTUM FLAVORDYNAMICS, ONE-DIMENSIONAL*)
-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 (RESTRICTED USE)
-OPERATOR PRODUCT (FIELD THEORY, OPERATOR PRODUCT EXPANSION)
*OPERATOR PRODUCT EXPANSION (FIELD THEORY, OPERATOR PRODUCT EXPANSION)
*OPTICAL (MODEL, OPTICAL)
*OPTICAL THEOREM (TOTAL CROSS SECTION, OPTICAL THEOREM)
OPTICS
ORBIT
-ORBIT CALCULATIONS (SEE *BEAM OPTICS* AND *ORBIT*)
ORGANIC COMPOUNDS
*ORSAY CYCL
*ORSAY LINAC
*ORSAY STOR
*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 ANTINUCLEON
P ANTISIGMA
P ANTIXI
P BARYON
P DEUTERON
P HYPERON
-P INVARIANCE (PARITY, INVARIANCE)
P LAMBDA
P LIGHT NUCLEUS
P N
P NUCLEON
P NUCLEUS
P OMEGA-
P P
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*)
*PATI-SALAM (FIELD THEORETICAL MODEL, PATI-SALAM)
-PATTERN RECOGNITION (USE *TRACK DATA ANALYSIS, ON-LINE* OR *TRACK DATA ANALYSIS, OFF-LINE*)
-PC(3510) (CF1/PC(3510))
*PCAC (MODEL, PCAC)
*PCVC (MODEL, PCVC)
*PERIPHERAL (MODEL, PERIPHERAL)
PERTURBATION THEORY
-PEYROU PLOT (*TRANSVERSE MOMENTUM* AND *LONGITUDINAL MOMENTUM*)
-PHASE SHIFT (*PARTIAL WAVE* OR *PARTIAL WAVE ANALYSIS*)
*PHASE SPACE (*KINEMATICS, PHASE SPACE* OR *STATISTICAL ANALYSIS, PHASE SPACE*)
-PHASE TRANSITION (SEE *FIELD THEORY, CRITICAL PHENOMENA*)
-PHENOMENOLOGY (NOT USED)
PHI(1019)
-PHI(1050) (OMEGA(1675))
-PHI-TO-THE-4TH 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 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 PHOTON COALESCENCE (*PHOTON PHOTON, INTERACTION*)
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 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 SIGMA
PI SIGMA+
PI SIGMA-

PI SIGMA0
PI VECTOR MESON
PI XI
PI XI-
PI X10
-PI(1640) (A2(1640))
-PI(975) (DELTA(97C))
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+ 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+ SIGMA
PI+ SIGMA+
PI+ SIGMA-
PI+ SIGMA0
PI+ VECTOR MESON
PI+ XI
PI+ XI-
PI+ X10
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- 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- SIGMA
PI- SIGMA+
PI- SIGMA-
PI- SIGMA0
PI- VECTOR MESON
PI- XI
PI- XI-
PI- X10
*PI-RHO(765)-OMEGA(784) (COUPLING, PI-RHO(765)-OMEGA(784))
-PI/RHO(1540) (PI(1540))
-PION EXCHANGE ('EXCHANGE, ONE-PION' OR 'EXCHANGE, MULTIPION')
-PIONIC FORM FACTOR (VERTEX FUNCTION)
*PIONIZATION (MULTIPLE PRODUCTION, PIONIZATION)
*PITTSBURGH CYCL
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 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 SIGMA
PI0 SIGMA+
PI0 SIGMA-
PI0 SIGMA0
PI0 VECTOR MESON
PI0 XI
PI0 XI-
PI0 X10
*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 K
POSITRON K+
POSITRON K-
POSITRON K0
POSITRON LAMBDA
POSITRON LIGHT NUCLEUS
POSITRON MESON
POSITRON MESON RESONANCE
POSITRON MUON
POSITRON MUON+
POSITRON MUON-
POSITRON N

P

POSITRON NUCLEON
POSITRON NUCLEUS
POSITRON OMEGA-
POSITRON P
POSITRON PI
POSITRON PI0
POSITRON PI-
POSITRON PIO
POSITRON POSITRON
POSITRON SIGMA
POSITRON SIGMA0
POSITRON SIGMA-
POSITRON SIGMAO
POSITRON VECTOR MESON
POSITRON XI
POSITRON XI-
POSITRON XIO
POSITRONIUM
POSTULATED PARTICLE
POTASSIUM
POTENTIAL
-POTENTIAL MODEL (POTENTIAL SCATTERING)
POTENTIAL SCATTERING
POWER ENGINEERING
POWER SUPPLY
PRASEODYMIUM
-PRECISION (PREPROCESSED 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
*PRISM PLOT (MULTIDIMENSIONAL ANALYSIS, PRISM PLOT)
-PROBABILITY (STATISTICS)
-PROCESS CONTROL COMPUTER (COMPUTER, CONTROL SYSTEM)
*PRODUCTION (RESTRICTED USE, IF POSSIBLE USE MORE SPECIFIC TERM)
-PRODUCTION CROSS SECTION (CHANNEL CROSS SECTION, PRODUCTION)
PROGRAMMING
-PROJECT (*EXPERIMENTAL EQUIPMENT, PROPOSED* OR *ACCELERATOR, PROPOSED*)
PROMETHIUM
-PROMPT PARTICLE (USE *DIRECT PRODUCTION*)
PROPAGATOR
PROPORTIONAL CHAMBER (USED ALSO FOR PROPORTIONAL COUNTER)
-PROPORTIONAL COUNTER (PROPORTIONAL CHAMBER)
-PROPORTIONAL WIRE CHAMBER (PROPORTIONAL CHAMBER)
*PROPOSED (*EXPERIMENTAL EQUIPMENT, PROPOSED* OR *ACCELERATOR, PROPOSED*)
PROPOSED EXPERIMENT
PROTACTINIUM
PROTON SYNCHROTRON
*PSEUDOPARTICLE (FIELD EQUATIONS, PSEUDOPARTICLE)
-PSEUDOPARTICLE SOLUTION (FIELD EQUATIONS, PSEUDOPARTICLE)
*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(3770)
PSI(4100) STRUCTURE
PSI(4400)
*PT (*INVARIANCE, PT* OR *VIOLATION, PT*)
-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)
-QFD (QUANTUM FLAVORDYNAMICS)
-QFT (FIELD THEORY)
QUADRUPOLE LENS
-QUANTAMETER (SEE *IONIZATION CHAMBER* AND *BEAM MONITORING*)
QUANTIZATION
QUANTUM CHROMODYNAMICS
QUANTUM ELECTRODYNAMICS
-QUANTUM FIELD THEORY (USE *FIELD THEORY*)
QUANTUM FLAVORDYNAMICS
QUANTUM MECHANICS
QUANTUM NUMBER
-QUANTUM STATISTICS (STATISTICAL MECHANICS)
QUARK
QUARK ANTIQUARK
QUARK GLUON (SEE ALSO *FIELD THEORY, ASYMPTOTIC FREEDOM*)
QUARK INTERMEDIATE BOSON
-QUARK LINE RULE (SELECTION RULE, IIZUKA-OKUBO-ZWEIG)
-QUARK MODEL (QUARK)
*QUARK PARTON (MODEL, QUARK PARTON)
QUARK QUARK
-QUARK REARRANGEMENT (SEE *MODEL, CONSTITUENT INTERCHANGE*)
-QUARK RECOMBINATION (SEE *MODEL, CONSTITUENT INTERCHANGE*)
-QUARK SEARCH (*SEARCH FOR, QUARK*, ONLY FOR EXPERIMENTAL SEARCHES FOR QUARKS)
*QUARKONIUM (QUARK, QUARKONIUM)
*QUARTET (QUARK, QUARTET)
*QUASICLASSICAL (APPROXIMATION, QUASICLASSICAL)
-QUASIELASTIC SCATTERING (USE *ELASTIC SCATTERING*)
-QUASIPARTICLE (SEE *MODEL, FERMI GAS*)
*QUASIPOTENTIAL (MODEL, QUASIPOTENTIAL)
*QUATERNION (ALGEBRA, QUATERNION)
*QUINTET (QUARK, QUINTET)
Q1(1300)
Q2(1400)

R

RADIATION
-RADIATION DETECTOR (NOT USED. SEE MORE SPECIFIC KEYWORDS)
-RADIATION DOSE (SEE *DOSIMETRY*)
-RADIATION EFFECT (SEE *RADIATION, EFFECT*)
RADIATION LENGTH
RADIATION PROTECTION
*RADIATIVE CAPTURE
RADIATIVE CORRECTION
*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 ELEELE CHAMBER (USE *ELEELE 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 *REGGEON FIELD THEORY*)
REGGEON FIELD THEORY
*REGGEON PARTICLE (SCATTERING, 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
-RFT (REGGEON FIELD THEORY)
RHENIUM
-RHO DOMINANCE MODEL (MODEL, VECTOR DOMINANCE)
-RHO EXCHANGE (EXCHANGE, RHO(765))
*RHO(1250) (POSTULATED PARTICLE, RHO(1250))
RHO(1600)
-RHO(1660) ((1660))
*RHO(1710) (POSTULATED PARTICLE, 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))
RHODIUM
*RIGHT-HANDED (CURRENT, RIGHT-HANDED)
-ROPER RESONANCE (N(1470))
*ROSENBLUTH FORMULA (*EXCHANGE, ONE-PHOTON* AND E.G., *ELECTRON P, ROSENBLUTH FORMULA*)
-ROSS-STODOLSKY (RHO(765), PHOTOPRODUCTION)
-ROTATION
*ROTATIONAL (SYMMETRY, ROTATIONAL)
*ROTATIONAL STATE (MODEL, ROTATIONAL STATE)
*ROTATOR (MODEL, ROTATOR)
RUBBER
RUBIDIUM
RUTHENIUM

*S(1930) (POSTULATED PARTICLE, S(1930))
S*(1000)
S-MATRIX
-S-WAVE (PARTIAL WAVE)
*SACLAY LINAC
*SACLAY PS
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
*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)
*SCHROEDINGER EQUATION (*QUANTUM MECHANICS, SCHROEDINGER EQUATION*; ONLY FOR PAPERS ON RELATIVISTIC QUANTUM MECHANICS)
*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)
*SEA (QUARK, SEA)
*SEAGULL (EFFECT, SEAGULL)
SEARCH FOR (ONLY FOR EXPERIMENTAL SEARCHES FOR POSTULATED PARTICLES)
-SECOND QUANTIZATION (FIELD THEORY, QUANTIZATION)
*SECOND-CLASS CURRENT (WEAK INTERACTION, SECOND-CLASS 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* OR *RADIATION PROTECTION*)
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
*SEPARABLE POTENTIAL (MODEL, SEPARABLE POTENTIAL)
*SEPARATED BEAM
*SEPARATED-ORBIT (CYCLOTRON, SEPARATED-ORBIT)
*SEPTET (QUARK, SEPTET)
-SEPTUM MAGNET (SEE *MAGNET, EJECTION*)
*SERIAL HIGHWAY (CAMAC SYSTEM, SERIAL HIGHWAY)
*SERPUKHOV PS
*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 LIGHT NUCLEUS
-SIGMA MODEL (FIELD THEORETICAL MODEL, SIGMA)
SIGMA NUCLEUS
-SIGMA TERM MODEL (USE *SYMMETRY, CHIRAL* AND, E.G., *MESON NUCLEON, INTERACTION*)
SIGMA VECTOR MESON
SIGMA(1385)
SIGMA(1670)
SIGMA(1750)
SIGMA(1765)
SIGMA(1915)
SIGMA(1940)
SIGMA(2030)
SIGMA(2250)
SIGMA(2455)
SIGMA(2620)
SIGMA+
SIGMA+ BARYON RESONANCE
SIGMA+ DEUTERON
SIGMA+ LIGHT NUCLEUS
SIGMA+ NUCLEUS
SIGMA+ SIGMA-
SIGMA+ SIGMA0
SIGMA+ VECTOR MESON
SIGMA-
SIGMA- BARYON RESONANCE
SIGMA- DEUTERON
SIGMA- LIGHT NUCLEUS
SIGMA- NUCLEUS
SIGMA- VECTOR MESON
SIGMA/C(2430)
SIGMA0
SIGMA0 BARYON RESONANCE
SIGMA0 DEUTERON
SIGMA0 LIGHT NUCLEUS
SIGMA0 NUCLEUS
SIGMA0 SIGMA-
SIGMA0 VECTOR MESON
SILICON
SILVER
*SIN CYCL
*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 REACTION*)
-SINGLE-ARM SPECTROMETER (SEE *MAGNETIC SPECTROMETER*)
-SINGLE-LOOP APPROXIMATION (*FEYNMAN GRAPH, HIGHER-ORDER* OR *DUAL FIELD THEORY, HIGHER-ORDER*)
*SIX-DIMENSIONAL (SEE *FIELD THEORY, SIX-DIMENSIONAL* OR *QUANTUM ELECTRODYNAMICS, SIX-DIMENSIONAL* OR *QUANTUM CHROMODYNAMICS, SIX-DIMENSIONAL* OR *QUANTUM FLAVORDYNAMICS, SIX-DIMENSIONAL*)
-SKELETON (FEYNMAN GRAPH)
*SL(2,C) (*SYMMETRY, SL(2,C)* OR *GROUP THEORY, SL(2,C)* OR *FIELD THEORY, SL(2,C)* OR *GAUGE FIELD THEORY, SL(2,C)*)
*SLAC LINAC (AT STANFORD)
*SLAC PEP STOR (AT STANFORD)
*SLAC SPEAR STOR (AT STANFORD)
*SLAVNOV IDENTITY (GAUGE FIELD THEORY, SLAVNOV IDENTITY)
-SLAVNOV-TAYLOR IDENTITY (GAUGE FIELD THEORY, SLAVNOV IDENTITY)
*SMALL-ANGLE
-SNOWMASS (ACCELERATOR, ELECTRON RING)
*SO(N) (*SYMMETRY, SO(N)* OR *GROUP THEORY, SO(N)* OR *FIELD THEORY, SO(N)* OR *GAUGE FIELD THEORY, SO(N)*)
*SO(10) (*SYMMETRY, SO(10)* OR *GROUP THEORY, SO(10)* OR *FIELD THEORY, SO(10)* OR *GAUGE FIELD THEORY, SO(10)*)

S

*SC(2,2) (*SYMMETRY, SC(2,2)* OR *GROUP THEORY, SC(2,2)* OR *FIELD THEORY, SC(2,2)* OR *GAUGE FIELD THEORY, SC(2,2)*)
*SC(3) (*SYMMETRY, SC(3)* OR *GROUP THEORY, SC(3)* OR *FIELD THEORY, SC(3)* OR *GAUGE FIELD THEORY, SC(3)*)
*SC(4) (*SYMMETRY, SC(4)* OR *GROUP THEORY, SC(4)* OR *FIELD THEORY, SC(4)* OR *GAUGE FIELD THEORY, SC(4)*)
*SCOING (*MODEL, SCOING)
SCOTLM
-SOFT PHOTON (RADIATIVE CORRECTION)
-SOFT PIONS (*CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS* OR *MODEL, PCAC*)
-SOFT SCATTERING (MOMENTUM TRANSFER, LOW)
*SOLENOID (MAGNET, SOLENOID)
SOLID-STATE COUNTER (SEE ALSO *SUPERCONDUCTOR DETECTOR*)
SOLIDS
*SOLITON (FIELD EQUATIONS, SOLITON)
*SOLUTION (*FIELD EQUATIONS, SOLUTION*; IF POSSIBLE USE MORE SPECIFIC TERM)
-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
*SPACE-TIME (FIELD THEORY, SPACE-TIME)
-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 SPEAR STCR*)
*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*)
*SPHERICITY (JET, SPHERICITY)
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)
*SPLIT-FIELD (AT CERN ISR: *MAGNETIC DETECTOR, SPLIT-FIELD*)
-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*)
-STATIONARY PHASE (SEE *MATHEMATICAL METHODS, PATH INTEGRAL*)
*STATISTICAL (*MODEL, STATISTICAL*)
STATISTICAL ANALYSIS (RESTRICTED TO BASIC PAPERS)
-STATISTICAL ECOTSTRAP (ECOTSTRAP, STATISTICAL)
STATISTICAL MECHANICS
-STATISTICAL TENSOR (SPIN, DENSITY MATRIX)
STATISTICS
-STATUS REPORT (ACTIVITY REPORT)
-STEEL (USE *IRON*)
*STICHEL THEOREM (SELECTION RULE, STICHEL THEOREM)
*STICHEL-SCHOLZ (*MODEL, STICHEL-SCHOLZ*)
-STIMULATED EMISSION (SEE *OPTICS, LASER* OR *RADIATIVE DECAY* OR *ATOMIC PHYSICS*)
*STOCHASTIC COOLING (BEAM COOLING, STOCHASTIC COOLING)
-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 (SEE *CURRENT, STRANGENESS CHANGING*)
-STRATON (CLARK)
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)* OR *GROUP THEORY, SU(N)* OR *FIELD THEORY, SU(N)* OR *GAUGE FIELD THEORY, SU(N)*)
*SU(N) x SU(N) (*SYMMETRY, SU(N) x SU(N)* OR *GROUP THEORY, SU(N) x SU(N)* OR *FIELD THEORY, SU(N) x SU(N)* OR *GAUGE FIELD THEORY, SU(N) x SU(N)*)
*SU(1,1) (*SYMMETRY, SU(1,1)* OR *GROUP THEORY, SU(1,1)* OR *FIELD THEORY, SU(1,1)* OR *GAUGE FIELD THEORY, SU(1,1)*)
*SU(2) (*SYMMETRY, SU(2)* OR *GROUP THEORY, SU(2)* OR *FIELD THEORY, SU(2)* OR *GAUGE FIELD THEORY, SU(2)*)
*SU(2) x SU(2) (*SYMMETRY, SU(2) x SU(2)* OR *GROUP THEORY, SU(2) x SU(2)* OR *FIELD THEORY, SU(2) x SU(2)* OR *GAUGE FIELD THEORY, SU(2) x SU(2)*)
*SU(2) x SU(2) x U(1) (*SYMMETRY, SU(2) x SU(2) x U(1)* OR *GROUP THEORY, SU(2) x SU(2) x U(1)* OR *FIELD THEORY, SU(2) x SU(2) x U(1)* OR *GAUGE FIELD THEORY, SU(2) x SU(2) x U(1)*)
*SU(2) x U(1) (*SYMMETRY, SU(2) x U(1)* OR *GROUP THEORY, SU(2) x U(1) x U(1)* OR *FIELD THEORY, SU(2) x U(1) x U(1)* OR *GAUGE FIELD THEORY, SU(2) x U(1) x U(1)*)
*SU(2) x U(1) x SU(2) (*SYMMETRY, SU(2) x U(1) x SU(2)* OR *GROUP THEORY, SU(2) x U(1) x SU(2)* OR *FIELD THEORY, SU(2) x U(1) x SU(2)* OR *GAUGE FIELD THEORY, SU(2) x U(1) x SU(2)*)
*SU(2) x U(1) x U(1) (*SYMMETRY, SU(2) x U(1) x U(1)* OR *GROUP THEORY, SU(2) x U(1) x U(1)* OR *FIELD THEORY, SU(2) x U(1) x U(1)* OR *GAUGE FIELD THEORY, SU(2) x U(1) x U(1)*)
*SU(2)N (*SYMMETRY, SU(2)N* OR *GROUP THEORY, SU(2)N* OR *FIELD THEORY, SU(2)N* OR *GAUGE FIELD THEORY, SU(2)N*)
*SU(2,2) (*SYMMETRY, SU(2,2)* OR *GROUP THEORY, SU(2,2)* OR *FIELD THEORY, SU(2,2)* OR *GAUGE FIELD THEORY, SU(2,2)*)
*SU(3) (*SYMMETRY,SU(3)* OR *GROUP THEORY, SU(3)* OR *FIELD THEORY, SU(3)* OR *GAUGE FIELD THEORY, SU(3)*)
*SU(3) x SU(2) x U(1) (*SYMMETRY, SU(3) x SU(2) x U(1)* OR *GROUP THEORY, SU(3) x SU(2) x U(1)* OR *FIELD THEORY, SU(3) x SU(2) x U(1)* OR *GAUGE FIELD THEORY, SU(3) x SU(2) x U(1)*)
*SU(3) x SU(3) (*SYMMETRY, SU(3) x SU(3)* OR *GROUP THEORY, SU(3) x SU(3)* OR *FIELD THEORY, SU(3) x SU(3)* OR *GAUGE FIELD THEORY, SU(3) x SU(3)*)
*SU(3) x SU(3)' (*SYMMETRY, SU(3) x SU(3)'' OR *GROUP THEORY, SU(3) x SU(3)'' OR *FIELD THEORY, SU(3) x SU(3)'' OR *GAUGE FIELD THEORY, SU(3) x SU(3)''*)
*SU(3) x U(1) (*SYMMETRY, SU(3) x U(1)* OR *GROUP THEORY, SU(3) x U(1)* OR *FIELD THEORY, SU(3) x U(1)* OR *GAUGE FIELD THEORY, SU(3) x U(1)*)
*SU(3)' (*SYMMETRY, SU(3)'' OR *GROUP THEORY, SU(3)'' OR *FIELD THEORY, SU(3)'' OR *GAUGE FIELD THEORY, SU(3)''*)
*SU(3)' x SU(3)'' (*SYMMETRY, SU(3)' x SU(3)''' OR *GROUP THEORY, SU(3)' x SU(3)''' OR *FIELD THEORY, SU(3)' x SU(3)''' OR *GAUGE FIELD THEORY, SU(3)' x SU(3)'''*)
*SU(3)'' (*SYMMETRY, SU(3)''' OR *GROUP THEORY, SU(3)''' OR *FIELD THEORY, SU(3)''' OR *GAUGE FIELD THEORY, SU(3)'''*)
*SU(4) (*SYMMETRY, SU(4)* OR *GROUP THEORY, SU(4)* OR *FIELD THEORY, SU(4)* OR *GAUGE FIELD THEORY, SU(4)*)
*SU(4) x SU(4) (*SYMMETRY, SU(4) x SU(4)* OR *GROUP THEORY, SU(4) x SU(4)* OR *FIELD THEORY, SU(4) x SU(4)* OR *GAUGE FIELD THEORY, SU(4) x SU(4)*)

*SU(5) ("SYMMETRY, SU(5)" OR "GROUP THEORY, SU(5)" OR "FIELD THEORY, SU(5)" OR "GAUGE FIELD THEORY, SU(5)")
*SU(6) ("SYMMETRY, SU(6)" OR "GROUP THEORY, SU(6)" OR "FIELD THEORY, SU(6)" OR "GAUGE FIELD THEORY, SU(6)")
*SU(6) X C(3) ("SYMMETRY, SU(6) X C(3)" OR "GROUP THEORY, SU(6) X C(3)" OR "FIELD THEORY, SU(6) X C(3)" OR "GAUGE FIELD THEORY, SU(6) X C(3)")
*SU(6)W ("SYMMETRY, SU(6)W" OR "GROUP THEORY, SU(6)W" OR "FIELD THEORY, SU(6)W" OR "GAUGE FIELD THEORY, SU(6)W")
*SU(8) ("SYMMETRY, SU(8)" OR "GROUP THEORY, SU(8)" OR "FIELD THEORY, SU(8)" OR "GAUGE FIELD THEORY, 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)
-SUPERGRAVITY (GRAVITATION, 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
SYNCHROTRON RADIATION

S

T

*T(2150) (POSTULATED PARTICLE, T(2190))
-T-INVARIANCE (INVARIANCE, TIME REVERSAL)
-T-MATRIX (S-MATRIX)
*TABLES
*TACHYON (POSTULATED PARTICLE, TACHYON)
*TAGPOLE (FEYNMAN GRAPH, TAGPOLE)
*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 SHOW ENTRY (TALK) BEHIND TITLE.)
TANTALUM
TARGET
-TARGET POLARIZATION (USE *TARGET, POLARIZATION* FOR MEASUREMENT OF POLARIZATION DEGREE, SEE ALSO *POLARIZED TARGET*)
*TASSO (AT PETRA: *MAGNETIC DETECTOR, TASSO*)
TAU
TAU+
TAU-
-TCP (SEE *CPT*)
-TDC (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-DIMENSIONAL (SEE *FIELD THEORY, THREE-DIMENSIONAL* OR *QUANTUM ELECTRODYNAMICS, THREE-DIMENSIONAL* OR *QUANTUM CHROMODYNAMICS, THREE-DIMENSIONAL* OR *QUANTUM FLAVORDYNAMICS, THREE-DIMENSIONAL*)
-THREE-MESON (SEE *EXCHANGE, MULTIMESON*)
-THREE-PHOTON (SEE *EXCHANGE, MULTIPHOTON)
-THREE-PION (SEE *EXCHANGE, MULTIPION*)
-THREE-POINT FUNCTION (VERTEX FUNCTION)
THRESHOLD
*THRUST (JET, THRUST)
THULIUM
*TIME
-TIME DISTRIBUTION (SEE *TIME VARIATION*; ONLY USED FOR COSMIC RADIATION OR FUNDAMENTAL CONSTANTS)
*TIME MEASUREMENT (SEE ALSO *FAST LOGIC, TIME-OF-FLIGHT* OR *FAST LOGIC, COINCIDENCE*)
*TIME RESOLUTION (COUNTERS AND DETECTORS, TIME RESOLUTION)
*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
-TOLLER POLE MODEL (*PARTIAL WAVE* AND *ANALYTIC PROPERTIES*)
*TOMSK ES
-TOP (QUARK, TRUTH)
*TOPOLOGICAL (CHARGE, TOPOLOGICAL)
-TOPOLOGICAL CROSS SECTION (CHANNEL CROSS SECTION)
*TOPOLOGICAL EXPANSION (QUALITY, TOPOLOGICAL EXPANSION)
TOTAL CROSS SECTION (SEE ALSO *CHANNEL CROSS SECTION*)
TOTAL-ABSORPTION COUNTER
-TOUSCHEK EFFECT (BEAM INSTABILITY)
*TPC (AT PEP: *MAGNETIC DETECTOR, TPC*, FOR TIME-TO-PULSE-HEIGHT CONVERTERS USE *FAST LOGIC*)
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, TREE)
-TREIMAN-YANG TEST (DECAY, ANGULAR DISTRIBUTION)
-TRIANGLE ANOMALY
-TRIANGLE GRAPH (FEYNMAN GRAPH)
-TRIGGERING (FAST LOGIC, COINCIDENCE)
*TRIMUON (FINAL STATE, TRIMUON)
-TRIPLE-POMERON COUPLING (POMERON, COUPLING)
*TRIPLE-REGGE LIMIT (INCLUSIVE REACTION, TRIPLE-REGGE LIMIT)
*TRIPLET (QUARK, TRIPLET)
TRITIUM
*TRIUMF CYCL (AT VANCOUVER)
-TROSS GRAPH (APPROXIMATION, LADDER)
*TRUTH (QUARK, TRUTH)
TRUTHFUL MESON
-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 MELTING (MODEL, TWO-COMPONENT MELTING)
*TWO-DIMENSIONAL (SEE *FIELD THEORY, TWO-DIMENSIONAL* OR *QUANTUM ELECTRODYNAMICS, TWO-DIMENSIONAL* OR *QUANTUM CHROMODYNAMICS, TWO-DIMENSIONAL* OR *QUANTUM FLAVORDYNAMICS, TWO-DIMENSIONAL*)
*TWO-GAMMA (AT PEP: *MAGNETIC DETECTOR, TWO-GAMMA*)
*TWO-PARTICLE (EXCHANGE, TWO-PARTICLE)
*TWO-PHOTON (EXCHANGE, TWO-PHOTON)
*TWO-PION (EXCHANGE, TWO-PION)

*U(N) ('SYMMETRY, U(N)' OR 'GROUP THEORY, U(N)' OR 'FIELD THEORY, U(N)' OR 'GAUGE FIELD THEORY, U(N)')
*U(1) ('SYMMETRY, U(1)' OR 'GROUP THEORY, U(1)' OR 'FIELD THEORY, U(1)' OR 'GAUGE FIELD THEORY, U(1)')
*U(1) PARTICLE (FIELD THEORY, U(1) PARTICLE)
*U(12) ('SYMMETRY, U(12)' OR 'GROUP THEORY, U(12)' OR 'FIELD THEORY, U(12)' OR 'GAUGE FIELD THEORY, U(12)')
*U(2375) (POSTULATED PARTICLE, U(2375))
*U(3) ('SYMMETRY, U(3)' OR 'GROUP THEORY, U(3)' OR 'FIELD THEORY, U(3)' OR 'GAUGE FIELD THEORY, U(3)')
*U(3) X U(3) ('SYMMETRY, U(3) X U(3)' OR 'GROUP THEORY, U(3) X U(3)' OR 'FIELD THEORY, U(3) X U(3)' OR 'GAUGE FIELD THEORY, U(3) X U(3)')
*U(4) ('SYMMETRY, U(4)' OR 'GROUP THEORY, U(4)' OR 'FIELD THEORY, U(4)' OR 'GAUGE FIELD THEORY, U(4)')
*U(4) X U(4) ('SYMMETRY, U(4) X U(4)' OR 'GROUP THEORY, U(4) X U(4)' OR 'FIELD THEORY, U(4) X U(4)' OR 'GAUGE FIELD THEORY, U(4) X U(4)')
*U(6) ('SYMMETRY, U(6)' OR 'GROUP THEORY, U(6)' OR 'FIELD THEORY, U(6)' OR 'GAUGE FIELD THEORY, U(6)')
*U(6,6) ('SYMMETRY, U(6,6)' OR 'GROUP THEORY, U(6,6)' OR 'FIELD THEORY, U(6,6)' OR 'GAUGE FIELD THEORY, U(6,6)')
*U-SPIN (QUANTUM NUMBER, U-SPIN)
-UV (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')
*UP (QUARK, UP)
UPSILON RESONANCE
UPSILON(10000)
UPSILON(10400)
UPSILON(9000)
*UR-CITON (MODEL, UR-CITON)
URANIUM
*URBANA BETATRON
*URBARYON (MODEL, URBARYON)

V

-V-A THEORY (MODEL, WEAK INTERACTION)
*V-SPIN (QUANTUM NUMBER, V-SPIN)
-VACUUM CHANNEL (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 DELTERON
-VECTOR MESON EXCHANGE (EXCHANGE, VECTOR MESON)
VECTOR MESON LIGHT NUCLEUS
VECTOR MESON NUCLEON
VECTOR MESON NUCLEUS
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*)

W

*W+ (POSTULATED PARTICLE, W+)
W (ALGEBRA, W*)
*W- (POSTULATED PARTICLE, 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., 'ELASTIC SCATTERING, WIDE-ANGLE')
*WIDE-GAP (SPARK CHAMBER, WIDE-GAP)
*WIDTH (USAGE IN ACCORDANCE WITH ROSENFELD TABLES; SEE ALSO 'DECAY WIDTH')
*WIGGLER (MAGNET, WIGGLER)
-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)

X

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 X(2830)
-X(4100) STRUCTURE  (PSI(4100) STRUCTURE)
*X-DEPENDENCE
 XENON
 XI
 XI BARYON RESONANCE
 XI DEUTERON
 XI LIGHT NUCLEUS
 XI NUCLEUS
 XI VECTOR MESON
 XI XI
 XI(1530)
 XI(1820)
 XI(1940)
 XI-
 XI- ANTI-XI-
 XI- BARYON RESONANCE
 XI- DEUTERON
 XI- LIGHT NUCLEUS
 XI- NUCLEUS
 XI- XI-
 XIO
 XIO BARYON RESONANCE
 XIO DEUTERON
 XIO LIGHT NUCLEUS
 XIO NUCLEUS
 XIO XI-
->C MESON RESONANCE  (ETA(958))
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-Y* (BARYON RESONANCE, HYPERON)
*Y-DEPENDENCE
*YANG (MODEL, YANG)
-YANG-FELDMAN EQUATIONS (FIELD THEORY)
*YANG-MILLS (GAUGE FIELD THEORY, YANG-MILLS)
*YIELD (IN COMBINATION WITH PARTICLES, ONLY WHERE YIELD IS GIVEN WITHOUT CROSS SECTIONS)
YTTERBIUM
YTTRIUM
*YUKAWA (POTENTIAL, YUKAWA)

Y

Z

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*20  (BARYON, 20)
-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)
*2C  (POSTULATED PARTICLE, 2C)
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