

Internal Report
DESY L-75/1
February 1975

The DESY Keyword Thesaurus 1975

DESY-Bibliothek
21. APR. 1975

Table I. Effect of Fe^{2+} on Polymerization

Time (hr.)	[Fe^{2+}] (molar)	[Fe^{2+}] in polymer (molar)	[Fe^{2+}] in solution (molar)	Yield (%)	Molecular weight
0.5	0.0005	0.0005	0.0005	85	1,000,000
0.5	0.0010	0.0010	0.0010	85	1,000,000
0.5	0.0020	0.0020	0.0020	85	1,000,000
0.5	0.0040	0.0040	0.0040	85	1,000,000
0.5	0.0080	0.0080	0.0080	85	1,000,000
0.5	0.0160	0.0160	0.0160	85	1,000,000
0.5	0.0320	0.0320	0.0320	85	1,000,000
0.5	0.0640	0.0640	0.0640	85	1,000,000
0.5	0.1280	0.1280	0.1280	85	1,000,000
0.5	0.2560	0.2560	0.2560	85	1,000,000
0.5	0.5120	0.5120	0.5120	85	1,000,000
0.5	1.0240	1.0240	1.0240	85	1,000,000
0.5	2.0480	2.0480	2.0480	85	1,000,000
0.5	4.0960	4.0960	4.0960	85	1,000,000
0.5	8.1920	8.1920	8.1920	85	1,000,000
0.5	16.3840	16.3840	16.3840	85	1,000,000
0.5	32.7680	32.7680	32.7680	85	1,000,000
0.5	65.5360	65.5360	65.5360	85	1,000,000
0.5	131.0720	131.0720	131.0720	85	1,000,000
0.5	262.1440	262.1440	262.1440	85	1,000,000
0.5	524.2880	524.2880	524.2880	85	1,000,000
0.5	1048.5760	1048.5760	1048.5760	85	1,000,000
0.5	2096.1520	2096.1520	2096.1520	85	1,000,000
0.5	4192.3040	4192.3040	4192.3040	85	1,000,000
0.5	8384.6080	8384.6080	8384.6080	85	1,000,000
0.5	16768.1120	16768.1120	16768.1120	85	1,000,000
0.5	33536.2240	33536.2240	33536.2240	85	1,000,000
0.5	67072.4480	67072.4480	67072.4480	85	1,000,000
0.5	134144.8960	134144.8960	134144.8960	85	1,000,000
0.5	268289.7920	268289.7920	268289.7920	85	1,000,000
0.5	536579.5840	536579.5840	536579.5840	85	1,000,000
0.5	1073159.1680	1073159.1680	1073159.1680	85	1,000,000
0.5	2146318.3360	2146318.3360	2146318.3360	85	1,000,000
0.5	4292636.6720	4292636.6720	4292636.6720	85	1,000,000
0.5	8585273.3440	8585273.3440	8585273.3440	85	1,000,000
0.5	17170546.6880	17170546.6880	17170546.6880	85	1,000,000
0.5	34341093.3760	34341093.3760	34341093.3760	85	1,000,000
0.5	68682186.7520	68682186.7520	68682186.7520	85	1,000,000
0.5	137364373.5040	137364373.5040	137364373.5040	85	1,000,000
0.5	274728747.0080	274728747.0080	274728747.0080	85	1,000,000
0.5	549457494.0160	549457494.0160	549457494.0160	85	1,000,000
0.5	1098914988.0320	1098914988.0320	1098914988.0320	85	1,000,000
0.5	2197829976.0640	2197829976.0640	2197829976.0640	85	1,000,000
0.5	4395659952.1280	4395659952.1280	4395659952.1280	85	1,000,000
0.5	8791319904.2560	8791319904.2560	8791319904.2560	85	1,000,000
0.5	17582639808.5120	17582639808.5120	17582639808.5120	85	1,000,000
0.5	35165279616.0240	35165279616.0240	35165279616.0240	85	1,000,000
0.5	70330559232.0480	70330559232.0480	70330559232.0480	85	1,000,000
0.5	140661118464.0960	140661118464.0960	140661118464.0960	85	1,000,000
0.5	281322236928.1920	281322236928.1920	281322236928.1920	85	1,000,000
0.5	562644473856.3840	562644473856.3840	562644473856.3840	85	1,000,000
0.5	1125288947712.7680	1125288947712.7680	1125288947712.7680	85	1,000,000
0.5	2250577895425.5360	2250577895425.5360	2250577895425.5360	85	1,000,000
0.5	4501155790851.0720	4501155790851.0720	4501155790851.0720	85	1,000,000
0.5	9002311581702.1440	9002311581702.1440	9002311581702.1440	85	1,000,000
0.5	18004623163404.2880	18004623163404.2880	18004623163404.2880	85	1,000,000
0.5	36009246326808.5760	36009246326808.5760	36009246326808.5760	85	1,000,000
0.5	72018492653617.1520	72018492653617.1520	72018492653617.1520	85	1,000,000
0.5	144036985307234.3040	144036985307234.3040	144036985307234.3040	85	1,000,000
0.5	288073970614468.6080	288073970614468.6080	288073970614468.6080	85	1,000,000
0.5	576147941228937.2160	576147941228937.2160	576147941228937.2160	85	1,000,000
0.5	1152295882457874.4320	1152295882457874.4320	1152295882457874.4320	85	1,000,000
0.5	2304591764915748.8640	2304591764915748.8640	2304591764915748.8640	85	1,000,000
0.5	4609183529831497.7280	4609183529831497.7280	4609183529831497.7280	85	1,000,000
0.5	9218367059662995.4560	9218367059662995.4560	9218367059662995.4560	85	1,000,000
0.5	18436734119325990.9120	18436734119325990.9120	18436734119325990.9120	85	1,000,000
0.5	36873468238651981.8240	36873468238651981.8240	36873468238651981.8240	85	1,000,000
0.5	73746936477303963.6480	73746936477303963.6480	73746936477303963.6480	85	1,000,000
0.5	147493872954607927.2960	147493872954607927.2960	147493872954607927.2960	85	1,000,000
0.5	294987745909215854.5920	294987745909215854.5920	294987745909215854.5920	85	1,000,000
0.5	589975491818431709.1840	589975491818431709.1840	589975491818431709.1840	85	1,000,000
0.5	1179950983636863418.3680	1179950983636863418.3680	1179950983636863418.3680	85	1,000,000
0.5	2359901967273726836.7360	2359901967273726836.7360	2359901967273726836.7360	85	1,000,000
0.5	4719803934547453673.4720	4719803934547453673.4720	4719803934547453673.4720	85	1,000,000
0.5	9439607869094907346.9440	9439607869094907346.9440	9439607869094907346.9440	85	1,000,000
0.5	1887921573818981469.8880	1887921573818981469.8880	1887921573818981469.8880	85	1,000,000
0.5	3775843147637962939.7760	3775843147637962939.7760	3775843147637962939.7760	85	1,000,000
0.5	7551686295275925879.5520	7551686295275925879.5520	7551686295275925879.5520	85	1,000,000
0.5	1510337259055185179.8840	1510337259055185179.8840	1510337259055185179.8840	85	1,000,000
0.5	3020674518110370359.7680	3020674518110370359.7680	3020674518110370359.7680	85	1,000,000
0.5	6041349036220740719.5360	6041349036220740719.5360	6041349036220740719.5360	85	1,000,000
0.5	12082698072441481439.0720	12082698072441481439.0720	12082698072441481439.0720	85	1,000,000
0.5	24165396144882962878.1440	24165396144882962878.1440	24165396144882962878.1440	85	1,000,000
0.5	48330792289765925756.2880	48330792289765925756.2880	48330792289765925756.2880	85	1,000,000
0.5	96661584579531851512.5760	96661584579531851512.5760	96661584579531851512.5760	85	1,000,000
0.5	193323169159063703025.1520	193323169159063703025.1520	193323169159063703025.1520	85	1,000,000
0.5	386646338318127406050.3040	386646338318127406050.3040	386646338318127406050.3040	85	1,000,000
0.5	773292676636254812100.6080	773292676636254812100.6080	773292676636254812100.6080	85	1,000,000
0.5	1546585353272509624201.2160	1546585353272509624201.2160	1546585353272509624201.2160	85	1,000,000
0.5	3093170706545019248402.4320	3093170706545019248402.4320	3093170706545019248402.4320	85	1,000,000
0.5	6186341413090038496804.8640	6186341413090038496804.8640	6186341413090038496804.8640	85	1,000,000
0.5	12372682826180076993609.7280	12372682826180076993609.7280	12372682826180076993609.7280	85	1,000,000
0.5	24745365652360153987219.4560	24745365652360153987219.4560	24745365652360153987219.4560	85	1,000,000
0.5	49490731304720307974438.9120	49490731304720307974438.9120	49490731304720307974438.9120	85	1,000,000
0.5	98981462609440615948877.8240	98981462609440615948877.8240	98981462609440615948877.8240	85	1,000,000
0.5	19796292521888123189775.6480	19796292521888123189775.6480	19796292521888123189775.6480	85	1,000,000
0.5	39592585043776246379551.2960	39592585043776246379551.2960	39592585043776246379551.2960	85	1,000,000
0.5	79185170087552492759102.5920	79185170087552492759102.5920	79185170087552492759102.5920	85	1,000,000
0.5	158370340175104985518205.1840	158370340175104985518205.1840	158370340175104985518205.1840	85	1,000,000
0.5	316740680350209971036410.3680	316740680350209971036410.3680	316740680350209971036410.3680	85	1,000,000
0.5	633481360700419942072820.7360	633481360700419942072820.7360	633481360700419942072820.7360	85	1,000,000
0.5	126696272140083988414560.1440	126696272140083988414560.1440	126696272140083988414560.1440	85	1,000,000
0.5	253392544280167976829120.2880	253392544280167976829120.2880	253392544280167976829120.2880	85	1,000,000
0.5	506785088560335953658240.5760	506785088560335953658240.5760	506785088560335953658240.5760	85	1,000,000
0.5	101357017712067190731648.1520	101357017712067190731648.1520	101357017712067190731648.1520	85	1,000,000
0.5	202714035424134381463296.3040	202714035424134381463296.3040	202714035424134381463296.3040	85	1,000,000
0.5	405428070848268762926592.6080	405428070848268762926592.6080	405428070848268762926592.6080	85	1,000,000
0.5	810856141696537525853184.1280	810856141696537525853184.1280	810856141696537525853184.1280	85	1,000,000
0.5	162171228339307505170632.2560	162171228339307505170632.2560	162171228339307505170632.2560	85	1,000,000
0.5					

Keywords

This list contains the regular keywords. Headings and underlined terms in parentheses are NOT used as keywords.

PARTICLES	N(2190) N(2220) N(2650) N(3030)	INTERACTIONS	four-pi detector Geiger-Mueller counter ionization chamber proportional counter scintillation counter solid-state counter total-absorption counter electronics analog circuit digital logic fast logic pulse-height analyzer CAMAC system readout	Mandelstam representation symmetry unitarity model final-state interaction current algebra Regge poles Regge cut pomeron duality Veneziano model neutral current	OTHER FIELDS
<u>photon</u>	Delta(1236) Delta(1236)+ Delta(1236)++ Delta(1236)-	<u>weak interaction</u>			<u>astrophysics</u>
<u>lepton</u>	Delta(1236)0	<u>leptonic decay</u>			<u>mathematics</u>
<u>neutrino</u>	Delta(1650)	<u>electromagnetic interaction</u>			<u>group theory</u>
<u>antineutrino</u>	Delta(1670)				<u>numerical mathematics</u>
<u>electron</u>	Delta(1950)				<u>statistics</u>
<u>positron</u>	Delta(2420)				<u>transformation</u>
<u>muon</u>	Delta(2850)				<u>computer</u>
<u>muon+</u>	Delta(3230)				<u>programming</u>
<u>muon-</u>	Lambda(1405)				<u>chemistry</u>
<u>meson</u>	Lambda'(1520)				<u>engineering</u>
<u>pi</u>	Lambda'(1670)				<u>mechanical engineering</u>
<u>pi+</u>	Lambda"(1690)				<u>electrical engineering</u>
<u>pi-</u>	Lambda(1815)				<u>power engineering</u>
<u>pi0</u>	Lambda(1830)				<u>microwaves</u>
<u>K</u>	Lambda(2100)				<u>communications</u>
<u>K+</u>	Lambda(2350)				<u>nuclear engineering</u>
<u>K-</u>	Lambda(2585)				<u>heat engineering</u>
<u>K0</u>	Sigma(1385)				<u>low temperature</u>
<u>anti-K0</u>	Sigma'(1670)				<u>control system</u>
<u>nucleon</u>	Sigma'(1750)				<u>vacuum techniques</u>
<u>p</u>	Sigma(1765)				<u>buildings</u>
<u>anti-p</u>	Sigma(1915)				<u>MATERIALS</u>
<u>n</u>	Sigma"(1940)				<u>(all elements)</u>
<u>anti-n</u>	Sigma(2030)				alloy
<u>antinucleon</u>	Sigma(2250)				ceramics
<u>hyperon</u>	Sigma(2455)				chemicals
<u>Lambda</u>	Sigma(2620)				compounds
<u>Antilambda</u>	Xi(!530)				concrete
<u>Sigma</u>	Xi(1820)				crystal
<u>Sigma+</u>	Xi(1940)				deuterium
<u>Sigma-</u>					elements
<u>Sigma0</u>					gas
<u>Antisigma</u>					glass
<u>Xi</u>					inorganic compounds
<u>Xi-</u>					liquid
<u>Xi0</u>					matter
<u>Antixi</u>					metal
<u>Omega-</u>					mineral
<u>antihyperon</u>					organic compounds
<u>meson resonance</u>					plastics
<u>eta(549)</u>					rubber
<u>epsilon(700)</u>					semiconductor
<u>rho(765)</u>					solids
<u>rho(765)+</u>					steel
<u>rho(765)-</u>					tritium
<u>rho(765)0</u>					water
<u>omega(784)</u>					<u>NUCLEAR PHYSICS</u>
<u>eta'(958)</u>					nuclear physics
<u>delta(970)</u>					charge distribution
<u>S*(1000)</u>					fission
<u>phi(1019)</u>					fusion
<u>A1(1070)</u>					nuclear properties
<u>B(1235)</u>					nuclear model
<u>F(1260)</u>					nuclear radiation
<u>D(1285)</u>					beam emittance
<u>A2(1310)</u>					beam monitoring
<u>E(1422)</u>					RF system
<u>F'(1514)</u>					injection
<u>pi/rho(1540)</u>					beam oscillation
<u>rho'(1600)</u>					betatron oscillation
<u>A3(1640)</u>					synchrotron oscillation
<u>omega(1675)</u>					ejection
<u>G(1680)</u>					<u>GENERAL PHYSICS</u>
<u>Rho(1710)</u>					aberration
<u>S(1930)</u>					atomic physics
<u>U(2375)</u>					charge
<u>K*(892)</u>					correction
<u>Q region</u>					correlation
<u>K(1420)</u>					cosmic radiation
<u>L(1770)</u>					current
<u>J(3100)</u>					density
<u>psi(3700)</u>					dependence
<u>X(4100)</u>					effect
<u>baryon resonance</u>					electric field
<u>nucleon resonance</u>					electricity
<u>N'(1470)</u>					electromagnetic
<u>N'(1520)</u>					flux
<u>N'(1535)</u>					fundamental constant
<u>N(1670)</u>					forces
<u>N'(1688)</u>					gravitation
<u>N''(1700)</u>					health physics
<u>N''(1780)</u>					magnetic field
<u>N(1860)</u>					mass
					mechanics
					moment
					momentum
					nonrelativistic
					optics
					plasma
					potential
					quantum mechanics
					relativistic
					relativity theory
					resonance
					spectra
					superconducting
					temperature
					thermodynamics
					transmission
					<u>MODAL KEYWORDS</u>
					numerical calculations
					proposed experiment
					tables
					review
					bibliography
					activity report
					conference
					manual
					lectures
					book
					thesis
					data compilation

The DESY Keyword Thesaurus 1975

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

I. Purpose of Keyword Assignment

Our keyword assignment serves the following purposes:

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

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

The total of keywords assigned to a paper will also serve as a substitute for an abstract.

2. Form of Keyword Assignment

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

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

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

3. Two-Particle Combinations (Reactions)

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

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

PHOTON	K	SIGMA
LEPTON	ANTI-KO	ANTISIGMA
FERMION	KO	SIGMA+
NEUTRINO	K+	SIGMAO
ANTINEUTRINO	K-	SIGMA-
ELECTRON	MESON RESONANCE	XI
POSITRON	BARYON	ANTIXI
MUON	ANTIBARYON	XIO
MUON+	NUCLEON	XI-
MUON-	ANTINUCLEON	OMEGA-
HADRON	ANTI-P	VECTOR MESON
MESON	P	BARYON RESONANCE
BOSON	N	DEUTERIUM
PI	ANTI-N	LIGHT NUCLEUS
PIO	HYPERON	NUCLEUS
PI+	ANTIHYPERON	QUARK
PI-	LAMBDA	INTERMEDIATE BOSON
	ANTILAMBDA	

4. Reaction Equations

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

ANTI-P P --> K0 K- PI+
PP --> P ANYTHING
DELTA(1236) --> P PI-
ANTI-P P --> DELTA(1236)(P PI-) PI+ PI- (+)

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

5. Three-Particle Combinations

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

6. Resonances

Meson and baryon resonances are generally named as in the 1973 Rosenfeld Tables, generally omitting the charge states.

7. Depth of Indexing

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

There are three kinds of entries in this thesaurus:

regular keywords (blank space in Column 1)

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

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/370 sorting sequence:

blank.(*);-/,>'=A...Z 0...9

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

A

*ABC {ENHANCEMENT, ABC}	ANTI-P QUARK
-ABELIAN FIELD THEORY (USE 'FIELD THEORY')	ANTI-P SIGMA
ABERRATION	ANTI-P SIGMA+
*ABFST (MODEL, ABFST)	ANTI-P SIGMA-
ABSORPTION	ANTI-P SIGMAO
-ABSORPTIVE MODEL (MODEL, ABSORPTION)	ANTI-P VECTOR MESON
*ABSORPTIVE PERIPHERAL (MODEL, ABSORPTIVE PERIPHERAL)	ANTI-P XI
-ABSTRACT ONLY (NOT USED AS A KEYWORD. APPEARS BEHIND THE TITLE)	ANTI-P XI-
ACCELERATOR	ANTI-P XIO
*ACOUSTIC (SPARK CHAMBER, ACCUSTIC)	ANTIBARYON
ACTINIUM	ANTIBARYON BARYON RESONANCE
-ACTION-AT-A-DISTANCE (AXIOMATIC FIELD THEORY)	ANTIBARYON DEUTERIUM
ACTIVITY REPORT	ANTIBARYON HYPERON
-ADAIR MODEL (DIFFRACTION)	ANTIBARYON INTERMEDIATE BOSON
-ACC (PULSE-HEIGHT ANALYZER)	ANTIBARYON LAMBDA
-ADEMOLLO-GATTO THEOREM (SYMMETRY, BROKEN)	ANTIBARYON LIGHT NUCLEUS
*ADLER (SUM RULE, ADLER)	ANTIBARYON N
-ADLER CONDITION (MODEL, PCAC + CURRENT ALGEBRA)	ANTIBARYON NUCLEON
*ADLER-DASHEN-HELL-GELL-MANN-FUBINI (SUM RULE, ADLER-DASHEN-HELL-GELL-MANN-FUBINI)	ANTIBARYON NUCLEUS
-ADLER-WEISBERGER RELATION (MODEL, PCAC + CURRENT ALGEBRA)	ANTIBARYON OMEGA-
-AGS ACCELERATOR (PROTON SYNCHROTRON)	ANTIBARYON P
*AIR (SHOWERS, AIR)	ANTIBARYON QUARK
ALIGNMENT	ANTIBARYON SIGMA
ALLOY	ANTIBARYON SIGMA+
ALUMINUM	ANTIBARYON SIGMA-
*AMADO (MODEL, AMADO)	ANTIBARYON SIGMAO
*AMATI-FUBINI-STANGHELLINI (MODEL, AMATI-FUBINI- STANGHELLINI + MODEL, MULTIPERIPHERAL)	ANTIBARYON VECTOR MESON
AMERICIUM	ANTIBARYON XI
-AMPLIFIER (ANALOG CIRCUIT)	ANTIBARYON XI-
-AMPLITUDE ANALYSIS (SEE 'INTERPRETATION OF EXPERIMENTS, CHANNEL CROSS SECTION')	ANTIBARYON XIO
ANALOG CIRCUIT	-ANTIDEUTERON (SEE 'ANTINUCLEUS')
-ANALOG MODEL	-ANTIFERMION (USE 'FERMION, ANTI PARTICLE')
-ANALOG-DIGITAL CONVERTER (PULSE-HEIGHT ANALYZER)	ANTIHYPERON
ANALYTIC PROPERTIES	ANTIHYPERON BARYON RESONANCE
-ANALYTICITY (ANALYTIC PROPERTIES)	ANTIHYPERON DEUTERIUM
ANGULAR CORRELATION	ANTIHYPERON INTERMEDIATE BOSON
ANGULAR DISTRIBUTION	ANTIHYPERON LIGHT NUCLEUS
ANGULAR MOMENTUM	ANTIHYPERON NUCLEUS
-ANHARMONIC OSCILLATOR (MODEL, OSCILLATOR)	ANTILAMBDA
ANNIHILATION	ANTILAMBDA BARYON RESONANCE
-ANTI-K (SEE 'ANTI-K0' OR 'K-')	ANTILAMBDA DEUTERIUM
ANTI-K0	ANTILAMBDA INTERMEDIATE BOSON
ANTI-K0 BARYON	ANTILAMBDA LIGHT NUCLEUS
ANTI-K0 BARYON RESONANCE	ANTILAMBDA NUCLEUS
ANTI-K0 DEUTERIUM	ANTILAMBDA QUARK
ANTI-K0 INTERMEDIATE BOSON	ANTILAMBDA VECTOR MESON
ANTI-K0 K+	-ANTILEPTON (USE 'LEPTON, ANTI PARTICLE')
ANTI-K0 K-	-ANTIMATTER (MATTER, ANTI PARTICLE (RESTRICTED USE))
ANTI-K0 KO	ANTIMONY
ANTI-K0 LAMBDA	ANTINEUTRINO
ANTI-K0 LIGHT NUCLEUS	ANTINEUTRINO ANTI-K0
ANTI-K0 MESON RESONANCE	ANTINEUTRINO ANTI-N
ANTI-K0 N	ANTINEUTRINO ANTI-P
ANTI-K0 NUCLEON	ANTINEUTRINO ANTIBARYON
ANTI-K0 NUCLEUS	ANTINEUTRINO ANTINEUTRINO
ANTI-K0 P	ANTINEUTRINO ANTINUCLEON
ANTI-K0 QUARK	ANTINEUTRINO BARYON
ANTI-K0 VECTOR MESON	ANTINEUTRINO BARYON RESONANCE
ANTI-N	ANTINEUTRINO BOSON
ANTI-N BARYON RESONANCE	ANTINEUTRINO DEUTERIUM
ANTI-N DEUTERIUM	ANTINEUTRINO ELECTRON
ANTI-N HYPERON	ANTINEUTRINO HADRON
ANTI-N INTERMEDIATE BOSON	ANTINEUTRINO HYPERON
ANTI-N LAMBDA	ANTINEUTRINO INTERMEDIATE BOSON
ANTI-N LIGHT NUCLEUS	ANTINEUTRINO K
ANTI-N NUCLEUS	ANTINEUTRINO K+
ANTI-N OMEGA-	ANTINEUTRINO K-
ANTI-N QUARK	ANTINEUTRINO KO
ANTI-N SIGMA	ANTINEUTRINO LAMBDA
ANTI-N SIGMA+	ANTINEUTRINO LIGHT NUCLEUS
ANTI-N SIGMA-	ANTINEUTRINO MESON
ANTI-N SIGMAO	ANTINEUTRINO MESON RESONANCE
ANTI-N VECTOR MESON	ANTINEUTRINO MUON
ANTI-N XI	ANTINEUTRINO MUON+
ANTI-N XI-	ANTINEUTRINO MUON-
ANTI-N XIO	ANTINEUTRINO N
ANTI-P	ANTINEUTRINO NUCLEON
ANTI-P BARYON RESONANCE	ANTINEUTRINO NUCLEUS
ANTI-P DEUTERIUM	ANTINEUTRINO OMEGA-
ANTI-P HYPERON	ANTINEUTRINO P
ANTI-P INTERMEDIATE BOSON	ANTINEUTRINO PI
ANTI-P LAMBDA	ANTINEUTRINO PI+
ANTI-P LIGHT NUCLEUS	ANTINEUTRINO PI-
ANTI-P N	ANTINEUTRINO PIO
ANTI-P NUCLEUS	ANTINEUTRINO POSITRON
ANTI-P OMEGA-	ANTINEUTRINO QUARK
ANTI-P P	ANTINEUTRINO SIGMA

A ANTINEUTRINO XI
ANTINEUTRINO XI-
ANTINEUTRINO XIO
ANTINUCLEON
ANTINUCLEON BARYON RESONANCE
ANTINUCLEON DEUTERIUM
ANTINUCLEON HYPERCN
ANTINUCLEON INTERMEDIATE BOSON
ANTINUCLEON LAMBDA
ANTINUCLEON LIGHT NUCLEUS
ANTINUCLEON N
ANTINUCLEON NUCLEUS
ANTINUCLEON OMEGA-
ANTINUCLEON P
ANTINUCLEON QUARK
ANTINUCLEON SIGMA
ANTINUCLEON SIGMA+
ANTINUCLEON SIGMA-
ANTINUCLEON SIGMAO
ANTINUCLEON VECTOR MESON
ANTINUCLEON XI
ANTINUCLEON XI-
ANTINUCLEON XIO
*ANTINUCLÆUS
-ANTIPARTICLE
-ANTIPARTICLE PARTICLE (USE 'PARTICLE
ANTIPARTICLE')
-ANTIQUARK ('QUARK, ANTI PARTICLE'. SEE ALSO
'QUARK ANTIQUARK')
ANTISIGMA
ANTISIGMA BARYON RESONANCE
ANTISIGMA DEUTERIUM
ANTISIGMA INTERMEDIATE BOSON
ANTISIGMA LIGHT NUCLEUS
ANTISIGMA NUCLEUS
ANTISIGMA QUARK
-ANTISIGMAO (SIGMAO, ANTI PARTICLE)
-ANTISYMMETRY (USE 'POLARIZATION')
ANTIXI
ANTIXI BARYON RESCNACE
ANTIXI DEUTERIUM
ANTIXI INTERMEDIATE BOSON
ANTIXI LIGHT NUCLEUS

ANTIXI NUCLEUS
ANTIXI QUARK
ANTIXI VECTOR MESON
*ANYTHING (ONLY IN REACTIONS)
APPROXIMATION
-ARGAND DIAGRAM ("PARTIAL-WAVE ANALYSIS" +
(POSSIBLY) "MESON RESONANCE" OR "BARYON
RESONANCE")
ARGON
*ARGONNE PS
ARSENIC
*ASSOCIATED ("PRODUCTION, ASSOCIATED" OR
"DECAY, ASSOCIATED")
ASTATINE
ASTROPHYSICS
-ASYMMETRY (USE "POLARIZATION")
-ASYMPTOTIC BEHAVIOR (IN GENERAL "HIGH ENERGY
BEHAVIOR", USED ONLY FOR THEORETIC MODELS
IN THE ASYMPTOTIC RANGE, AND ONLY WHERE
HIGH ENERGY BEHAVIOR IS NOT IMPLICITLY
CONTAINED IN OTHER KEYWORDS SUCH AS "REGGE
POLES" OR "FACTORIZATION")
*ASYMPTOTIC FREEDOM (FIELD THEORY, ASYMPTOTIC
FREEDOM)
-AT REST
ATOM
*ATOMIC NUMBER
ATOMIC PHYSICS
-AUTOMODELITY (SCALING)
-AUXILIARY CIRCUITS (IF ELECTRONICS, GENERALLY
'DIGITAL LOGIC'. IF NOT ELECTRONICS, 'ELECTRICAL
ENGINEERING')
*AXIAL (RESTRICTED USE)
-AXIAL VECTOR CURRENT (CURRENT ALGEBRA)
-AXIAL-VECTOR CURRENT MODEL (CURRENT ALGEBRA)
*AXIAL-VECTOR MESON DOMINANCE (MODEL, AXIAL-
VECTOR DOMINANCE)
AXIOMATIC FIELD THEORY
A111070
-A2 EXCHANGE (EXCHANGE, A2{1310})
-A2 SPLITTING (A2{1310}, MASS DIFFERENCE)
A2{1310}
A3{1640}

B{1235)
 BACKGROUND
 BACKSCATTER
 -BACKWARD SCATTERING (BACKSCATTER)
 *BAG (MODEL, BAG)
 *BALI-CHEW-PIGNOTTI (MODEL, BALI-CHEW-PIGNOTTI)
 *BARDAKCI-RUEGG (MODEL, BARDAKCI-RUEGG)
 *BARDAKCI-RUEGG-VIRASORO (MODEL, BARDAKCI-RUEGG-VIRASORO)
 BARIUM
 BARYON (ALSO: MODEL, BARYON)
 BARYON ANTI-N
 BARYON ANTI-P
 BARYON ANTIBARYON
 BARYON ANTIHYPERON
 BARYON ANTILAMBDA
 BARYON ANTINUCLEON
 BARYON ANTISIGMA
 BARYON ANTIXI
 BARYON BARYON
 BARYON BARYON RESONANCE
 BARYON DEUTERIUM
 -BARYON EXCHANGE (EXCHANGE, BARYON)
 BARYON HYPERON
 BARYON INTERMEDIATE BOSON
 BARYON LAMBDA
 BARYON LIGHT NUCLEUS
 -BARYON MODEL (MODEL, BARYON)
 BARYON N
 BARYON NUCLEON
 BARYON NUCLEUS
 -BARYON NUMBER (*QUANTUM NUMBER, BARYON)
 BARYON OMEGA-
 BARYON P
 -BARYON POLE MODEL (EXCHANGE, BARYON)
 BARYON QUARK
 BARYON RESONANCE
 -BARYON RESONANCE BARYON RESONANCE
 (*BARYON RESONANCE, BARYON BARYON)
 BARYON RESONANCE DEUTERIUM
 BARYON RESONANCE LIGHT NUCLEUS
 BARYON RESONANCE NUCLEUS
 BARYON RESONANCE QUARK
 BARYON SIGMA
 BARYON SIGMA+
 BARYON SIGMA-
 BARYON SIGMAO
 BARYON VECTOR MESON
 BARYON XI
 BARYON XI-
 BARYON XIO
 *BATAVIA PS
 BEAM
 -BEAM CALIBRATION (BEAM MONITORING)
 -BEAM CHOPPER (SEE 'BUCHING')
 -BEAM DUMP (SHIELDING, BEAM STOP)
 BEAM EMMITTANCE
 BEAM HARDENER
 BEAM MONITORING
 BEAM OPTICS
 BEAM OSCILLATION
 -BEAM POLARIZATION (*BEAM, POLARIZATION)
 *BEAM STOP (SHIELDING, BEAM STOP)
 BEAM TRANSPORT
 *BEAM-BEAM (SCATTERING, BEAM-BEAM)
 *BELL-STEINBERGER (MODEL, BELL-STEINBERGER)
 BENDING MAGNET
 *BERKELEY PS
 BERKELIUM
 -BERMAN-BJORKEN-KOGUT MODEL (TRANSVERSE MOMENTUM, HIGH)
 BERYLLIUM
 -BETA DECAY (*ELECTRONIC DECAY)
 -BETA FUNCTION
 BETATRON
 BETATRON OSCILLATION
 -BETHE-GOLDSTONE
 *BETHE-HEITLER (*APPROXIMATION, BETHE-HEITLER)
 BETHE-SALPETER EQUATION
 -BHABHA SCATTERING (ELECTRON-POSITRON, ELASTIC SCATTERING)
 *BIALAS-ZALEWSKI (MODEL, BIALAS-ZALEWSKI)
 BIBLIOGRAPHY
 -BILOCAL CURRENT ALGEBRA (*FIELD THEORY, OPERATOR ALGEBRA)
 -BILOCAL OPERATOR ALGEBRA (*FIELD THEORY, OPERATOR ALGEBRA)
 BINDING ENERGY

BISMUTH
 *BJORKEN (SCALING, BJORKEN)
 *BJORKEN LIMIT (HIGH ENERGY BEHAVIOR, BJORKEN LIMIT)
 -BJORKEN MODEL (HIGH ENERGY BEHAVIOR, BJORKEN LIMIT)
 -BJORKEN-JOHNSON-LOW (HIGH ENERGY BEHAVIOR, BJORKEN LIMIT)
 -BJORKEN-KOGUT MODEL (USE 'INCLUSIVE REACTION, EXCLUSIVE REACTION')
 -BJORKEN-PASCHOS (MODEL, PARTON)
 -BLACK HOLE (GRAVITATION)
 -BLANKENBECLER-BRODSKY-GUNION (MODEL, CONSTITUENT INTERCHANGE)
 *BLOOM-GILMAN (*SUM RULE, BLOOM-GILMAN OR 'DUALITY, BLOOM-GILMAN')
 *BLOWUP (BEAM, BLOWUP)
 *BONN ES
 BOOK
 -BOOSTER (USE 'INJECTION' OR 'SYNCHROTRON')
 BOOTSTRAP
 *BORN (APPROXIMATION, BORN)
 BORON
 BOSON (ALSO: 'MODEL, BOSON')
 BOSON ANTI-K0
 BOSON ANTI-N
 BOSON ANTI-P
 BOSON ANTIBARYON
 BOSON ANTIHYPERON
 BCSON ANTILAMBDA
 BOSON ANTINUCLEON
 BCSON ANTISIGMA
 BOSON ANTIXI
 BOSON BARYON
 BOSON BARYON RESONANCE
 BOSON BOSON
 BOSON DEUTERIUM
 BOSON HYPERON
 BOSON INTERMEDIATE BOSON
 BOSON K
 BOSON K+
 BOSON K-
 BOSON KO
 BOSON LAMBDA
 BOSON LIGHT NUCLEUS
 BOSON MESON RESONANCE
 BOSON N
 BOSON NUCLEON
 BOSON NUCLEUS
 BOSON OMEGA-
 BOSON P
 BOSON PI
 BOSON PI+
 BCSON PI-
 BOSON PIO
 BOSON QUARK
 BOSON SIGMA
 BOSON SIGMA+
 BOSON SIGMA-
 BOSON SIGMAO
 BOSON VECTOR MESON
 BOSON XI
 BOSON XI-
 BOSON XIO
 -BOUND ELECTRONS (ATOMIC PHYSICS)
 *BOUND STATE (ONLY USED AS 'MODEL, BOUND STATE')
 *BOUNDARY CONDITION (MODEL, BOUNDARY CONDITIONS)
 -BOX DIAGRAM (SEE 'FEYNMAN GRAPH' (RESTRICTED USE))
 -BRANCHING RATIO (DECAY MODES (RESTRICTED USE))
 -BRANS-DICKE (GRAVITATION)
 *BREAKUP (*FISSION, BREAKUP' OR, E.G., *P, BREAKUP)
 *BREIT-WIGNER (MODEL, BREIT-WIGNER)
 BREMSSTRAHLUNG (ALSO 'MODEL, BREMSSTRAHLUNG')
 *BROKEN (*SYMMETRY, BROKEN) EXAMPLE:
 (*SYMMETRY, SU(3) + *SYMMETRY, BROKEN)
 BROMINE
 *BROOKHAVEN PS
 BUBBLE CHAMBER
 BUBBLE CHAMBER(DEUTERIUM)
 BUBBLE CHAMBER(HEAVY LIQUID)
 BUBBLE CHAMBER(HYDROGEN)
 BUILDINGS
 BUNCHING
 *BYPASS (STORAGE RING, BYPASS)
 -BY MODEL (VENEZIANO MODEL, N-POINT FUNCTION)

B

- C**
- C MESON RESONANCE (Q REGION)
 - C* ALGEBRA ('MECHANICS, STATISTICS' OR 'AXIOMATIC FIELD THEORY')
 - C-PARITY (QUANTUM NUMBER, CHARGE CONJUGATION)
 - *CABIBBO (MODEL, CABIBBO)
 - *CABIBBO-ANGLE (WEAK INTERACTION, CABIBBO ANGLE)
 - *CABIBBO-MORWITZ-NE'EMAN (MODEL, CABIBBO-MORWITZ-NE'EMAN)
 - *CABIBBO-MAIANI-PREPARATA (MODEL, CABIBBO-MAIANI-PREPARATA)
 - *CABIBBO-RADICATI ('SUM RULE, CABIBBO-RADICATI' AND 'CURRENT ALGEBRA')
 - CADMUM
 - CALCTUM
 - CALCULATIONS (SEE 'NUMERICAL CALCULATIONS')
 - CALIBRATION
 - CALIFORNIA
 - *CALLAN-GROSS ('SUM RULE, CALLAN-GROSS')
 - *CALLAN-SYMANZIK EQUATIONS (RENORMALIZATION, CALLAN-SYMANZIK EQUATIONS)
 - *CALLAN-TREIMAN RELATION (CURRENT ALGEBRA, CALLAN-TREIMAN RELATION)
 - CALORIMETER (SEE 'BEAM MONITORING' OR 'TOTAL-ABSORPTION COUNTER')
 - CAMAC SYSTEM
 - *CAMBRIDGE ES
 - *CANESCHI-PIGNOTTI (MODEL, CANESCHI-PIGNOTTI)
 - CAPTURE
 - CARBON
 - *CARLITZ-KISLINGER (MODEL, CARLITZ-KISLINGER)
 - *CASCADE ('MODEL, CASCADE' OR 'DECAY, CASCADE'; SEE ALSO 'SHOWERS')
 - CASCADE EVAPORATION MODEL (MODEL, CASCADE)
 - CASTILLEJO-DALITZ-DYSON POLES (PARTIAL WAVE, DISPERSION RELATIONS)
 - *CAUSALITY ('DISPERSION RELATIONS' OR 'AXIOMATIC FIELD THEORY, CAUSALITY')
 - CAVITY (SEE 'RF SYSTEM')
 - CDD POLES (PARTIAL WAVE, DISPERSION RELATIONS)
 - *CENTRAL REGION (USE 'INCLUSIVE REACTION, CENTRAL REGION')
 - CERAMICS
 - CERIUM
 - *CERN CYCL (AT GENEVA)
 - *CERN STOR (AT GENEVA)
 - *CERN1 PS (AT GENEVA)
 - *CERN2 PS (AT GENEVA)
 - CESTIUM
 - CGI (DISPERSION RELATIONS, CHEW-GOLDBERGER-LCW)
 - CGLN (DISPERSION RELATIONS, CHEW-GOLDBERGER-LOW-NAMBU)
 - *CHAN-LOSKIEWICZ-ALLISON (MODEL, CHAN-LOSKIEWICZ-ALLISON)
 - CHANNEL (NOT TRANSLATED)
 - CHANNEL CROSS SECTION (USED FOR THE INTEGRATED DIFFERENTIAL CROSS SECTION OF A CHANNEL)
 - CHARGE
 - *CHARGE CONJUGATION ('INVARIANCE, CHARGE CONJUGATION' OR 'VIOLATION, CHARGE CONJUGATION' OR 'QUANTUM NUMBER, CHARGE CONJUGATION')
 - CHARGE DISTRIBUTION (ONLY FOR NUCLEI. FOR PARTICLES SEE 'FORM FACTOR')
 - CHARGE EXCHANGE
 - CHARGE STATISTICS (CHARGE, STATISTICS)
 - CHARGED PARTICLE
 - *CHARGED SCALAR (EXCHANGE, CHARGED SCALAR)
 - CHARGED SCALAR STATIC MODEL ('MODEL, STATIC' AND 'EXCHANGE, CHARGED SCALAR')
 - *CHARM (QUARK, CHARM)
 - CHARMED PARTICLE
 - CHARPAK CHAMBER (PROPORTIONAL CHAMBER)
 - CHEMICALS
 - CHEMISTRY
 - CHENG-DASHEN (SYMMETRY, CHIRAL)
 - *CHENG-WU (MODEL, CHENG-WU)
 - *CHERENKOV (RADIATION, CHERENKOV)
 - CHERENKOV COUNTER
 - CHERENKOV RADIATION (RADIATION, CHERENKOV)
 - CHEW-FRAUTSCHI PLCT ('REGGE PLES')
 - *CHEW-GOLDBERGER-LOW-NAMBU (DISPERSION RELATIONS, CHEW-GOLDBERGER-LOW-NAMBU)
 - *CHEW-LOW (MODEL, CHEW-LCW)
 - *CHEW-MANDELSTAM (MODEL, CHEW-MANDELSTAM)
 - CHEW-PIGNOTTI (MODEL, MULTIPERIPHERAL)
 - *CHIRAL (GENERALLY: SYMMETRY, CHIRAL)
 - CHLORINE
 - *CHOU-YANG (MODEL, CHOU-YANG)
 - CHROMIUM
 - CIM (USE 'MODEL, CONSTITUENT INTERCHANGE')
 - CLA (MODEL, CHAN-LOSKIEWICZ-ALLISON)
 - CLEBSCH-GORDON COEFFICIENTS (GROUP THEORY, ANGULAR MOMENTUM)
 - CLIFFORD ALGEBRA (GROUP THEORY)
 - CLOSED-LOOP DIAGRAM (SEE 'FEYNMAN GRAPH' (RESTRICTED USE))
 - CLOSED-ORBIT CORRECTION (CORRECTION, ORBIT)
 - *CLOSURE (APPROXIMATION, CLOSURE)
 - CLOUD CHAMBER
 - *CLUSTER (MODEL, CLUSTER)
 - COBALT
 - COHEN-TANNOUDJI-HENYEV-KANE (SEE 'MODEL, ABSORPTION')
 - *COHERENT INTERACTION (ALSO 'MODEL, COHERENT INTERACTION')
 - *COHERENT PRODUCTION
 - *COHERENT STATE (SEE 'QUANTUM ELECTRODYNAMICS, COHERENT STATE')
 - COHERENT STATE MODEL ('MODEL, GLAUBER'. SEE ALSO 'QUANTUM ELECTRODYNAMICS, COHERENT STATE')
 - COIL
 - COINCIDENCE CIRCUIT (FAST LOGIC)
 - COINCIDENCE METHOD (ELECTRONIC COINCIDENCE METHODS: 'FAST LOGIC')
 - COLEMAN-GLASHOW FORMULA (BARYON, MASS DIFFERENCE)
 - COLEMAN-WEINBERG INSTABILITY (SYMMETRY, BROKEN)
 - *COLLECTIVE (ACCELERATOR, COLLECTIVE)
 - COLLIDING BEAMS
 - COLLIDING-BEAM DETECTORS (USE APPROPRIATE KEYWORDS FOR CHAMBERS OR DETECTORS (SEE ALSO 'HYBRID SYSTEM'). ADD 'MAGNETIC FIELD' WHERE APPROPRIATE)
 - *COLOR (QUARK, COLOR)
 - COMMUNICATIONS
 - COMMUTATION RELATIONS
 - *COMMUTATOR (FIELD THEORY, COMMUTATOR)
 - COMPARISON OF EXPERIMENTAL RESULTS (INTERPRETATION OF EXPERIMENTS)
 - *COMPOSITE (MODEL, COMPOSITE)
 - COMPOSITE BOSON (MODEL, BOSON + MODEL, COMPOSITE)
 - COMPOSITE PARTICLE MODEL (MODEL, COMPOSITE)
 - COMPOUND NUCLEUS (NUCLEAR REACTION)
 - COMPOUNDS
 - COMPTON SCATTERING
 - COMPUTER
 - CONCRETE
 - CONFERENCE
 - *CONFIGURATION (INTERFERENCE, CONFIGURATION)
 - CONFIGURATION MIXING (INTERFERENCE, CONFIGURATION)
 - CONFIGURATION SPACE
 - *CONFINEMENT (QUARK, CONFINEMENT)
 - *CONFORMAL
 - CONFORMAL MAPPING (SEE 'ANALYTIC PROPERTIES')
 - CONSERVATION LAW
 - *CONSERVED A-V CURRENT (MODEL, CONSERVED A-V CURRENT)
 - *CONSERVED VECTOR CURRENT (MODEL, CONSERVED VECTOR CURRENT)
 - CONSPIRACY
 - *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 'DOSEMETRY' OR 'BACKGROUND')
 - *CONTINUOUS MASS ('SUM RULE, CONTINUOUS MASS')
 - *CONTINUOUS MOMENT ('SUM RULE, CONTINUOUS MOMENT')
 - CONTROL SYSTEM
 - COPPER
 - *CORNELL ES
 - CORRECTION
 - CORRELATION
 - COSMIC RADIATION
 - COSTS (SEE 'EXPERIMENTAL EQUIPMENT, PROPOSED' OR 'ACCELERATOR, PROPOSED')
 - COTTINGHAM FORMULA (MASS DIFFERENCE)
 - COULOMB DISSOCIATION (NUCLEAR REACTION, COULOMB SCATTERING)
 - *COULOMB SCATTERING
 - COUNTERS AND DETECTORS
 - 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 (SEE 'CAMAC SYSTEM')
 - *CRITICAL PHENOMENA (FIELD THEORY, CRITICAL PHENOMENA)
 - CROSS SECTION (RESTRICTED USE, SEE ALSO 'TOTAL CROSS SECTION' AND 'DIFFERENTIAL CROSS SECTION')

*CROSSING (SYMMETRY, CROSSING)
CRYSTAL
CURIUM
CURRENT (RESTRICTED USE)
CURRENT ALGEBRA
-CURRENT COMMUTATOR RELATIONS (CURRENT ALGEBRA)
-CURRENT COMMUTATORS (CURRENT ALGEBRA)
-CURRENT CONSERVATION LAW ("CURRENT,
CONSERVATION LAW")

-CURRENT 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(1285)
-D/F RATIO (COUPLING CONSTANT, D/F RATIO)
-DAC (PULSE-HEIGHT ANALYZER)
-DALITZ PLOT (KINEMATICS)
-DAMA (*MODEL, DUAL RESONANCE* AND
 'ANALYTIC PROPERTIES')
*DAMAGE (RADIATION, DAMAGE)
-DASHEN-FUBINI-GELL-MANN (SEE 'SUM RULE,
 ADLER-DASHEN-GELL-MANN-FUBINI')
-DATA ANALYSIS ('INTERPRETATION OF EXPERIMENTS,
 DATA COMPILATION' OR 'DATA ANALYSIS METHOD')
 DATA ANALYSIS METHOD (RESTRICTED USE)
-DATA COLLECTION (SEE 'DATA COMPILATION')
 DATA COMPILATION
-DATA HANDLING (SEE 'COMPUTER')
-DATA PRESENTATION (SEE 'INTERPRETATION OF
 EXPERIMENTS' OR 'DATA ANALYSIS METHOD')
 DECAY
-DECAY CROSS SECTION (DECAY)
 DECAY MODES (RESTRICTED TO THE DETERMINATION
 OF DECAY-MODE RATIOS OR NEW DECAY MODES)
-DECAY RATES (USE 'DECAY MODES')
*DECK (*EFFECT, DECK)
-DECK MODEL
*DEEP INELASTIC SCATTERING (ALSO 'MODEL, DEEP
 INELASTIC SCATTERING')
-DEFORMABLE SPHERE MODEL (MCDEL, PARTICLE)
-DEFORMED NUCLEUS (NUCLEAR PROPERTIES)
*DEGENERACY (*EXCHANGE, DEGENERACY')
*DELBRUECK (SCATTERING, DELBRUECK)
-DELTA(I)=1/2 (SELECTION RULE, TSOSPIN)
-DELTA(S)=2 (SELECTION RULE, STRANGENESS)
DELTA(1236)
DELTA(1236)+
DELTA(1236)++
DELTA(1236)-
DELTA(1236)0
DELTA(1650)
DELTA(1670)
DELTA(1890)
DELTA(1910)
DELTA(1950)
DELTA(2420)
DELTA(2850)
DELTA(3230)
-DELTA(962) (DELTA(970))
DELTA(970)
DENSITY
*DENSITY MATRIX (GENERALLY 'SPIN, DENSITY
 MATRIX')
-DENSITY MODEL (MODEL, DUAL RESONANCE)
 DEPENDENCE (RESTRICTED USE)
-DEPOLARIZATION
-DESER-GILBERT-SUDARSHAN (SEE 'SPECTRAL
 REPRESENTATION')
*DESY ES (AT HAMBURG)
*DESY STOR (AT HAMBURG)
-DETECTION ('COUNTERS AND DETECTORS' OR
 'MEASUREMENT' OR 'PARTICLE IDENTIFICATION')
 DEUTERIUM (ALSO 'MODEL, DEUTERIUM')
 DEUTERIUM DEUTERIUM
 DEUTERIUM INTERMEDIATE BCSON
 DEUTERIUM LIGHT NUCLEUS
-DEUTERIUM MODEL (MODEL, DEUTERIUM)
 DEUTERIUM NUCLEUS
 DEUTERIUM QUARK
-DEUTERON (DEUTERIUM)
-DIAGONALIZATION
 DIFFERENTIAL CROSS SECTION (FOR THE INTEGRATED
 DIFFERENTIAL CROSS SECTION OF A CHANNEL, USE
 'CHANNEL CROSS SECTION')
-DIFFRACTION
-DIFFRACTION DISSOCIATION (DIFFRACTION,
 DISSOCIATION)
-DIFFRACTION EXCITATION (MODEL, DIFFRACTION)
-DIFFRACTION MODEL (*MODEL, DIFFRACTION* OR,
 EXPERIMENTAL, 'INTERPRETATION OF EXPERIMENTS,
 DIFFRACTION')
-DIFFRACTION SCATTERING (*DIFFRACTION*)
-DIFFRACTION SCATTERING MODEL (*MODEL,
 DIFFRACTION* OR, EXPERIMENTAL, 'INTERPRETATION
 OF EXPERIMENTS, DIFFRACTION')
-DIFFRACTIVE EXCITATION (MODEL, DIFFRACTION)
 DIFFUSION
-DIFFUSION CHAMBER (CLOUD CHAMBER)
 DIGITAL LOGIC
-DIGITAL-ANALOG CONVERTER (PULSE-HEIGHT ANALYZER)
-DIGITAL-DIGITAL CIRCUIT (DIGITAL LOGIC)
-DILATATION (USE 'SYMMETRY, DILATION')
*DILATION (SYMMETRY, DILATION)
-DILATON (USE 'SYMMETRY, DILATION')
*DIP (DIFFERENTIAL CROSS SECTION, DIP)
-DIP MECHANISM
*DIPION
-DIPOLE (SEE 'FORM FACTOR')
-DIRAC EQUATION ('FIELD EQUATIONS' OR 'QUANTUM
 MECHANICS, RELATIVISTIC')
-DIRAC PARTICLE (*FERMION*, SEE ALSO 'FIELD
 EQUATIONS' OR 'ELECTROMAGNETIC, RADIATION')
*DIRECT REACTION ('NUCLEAR REACTION, DIRECT
 REACTION')
-DISCHARGE CHAMBER (SPARK CHAMBER)
-DISCRIMINATOR (USUALLY 'PULSE-HEIGHT ANALYZER',
 IN NANOSECOND RANGE: FAST LOGIC)
*DISPERSION
 DISPERSION RELATIONS
-DISPERSION THEORY (DISPERSION RELATIONS)
-DISPLAY (FREQUENTLY: PULSE-HEIGHT
 ANALYZER)
*DISSOCIATION (DIFFRACTION, DISSOCIATION)
*DISTORTED WAVE BORN (APPROXIMATION, DISTORTED
 WAVE BORN)
*DISTORTED WAVE IMPULSE (APPROXIMATION,
 DISTORTED WAVE IMPULSE)
-DISTRIBUTION FUNCTION
 DOSIMETRY
-DOUBLE EXCHANGE (SEE 'REGGE POLES, MULTI-REGGE'
 OR 'RADIATIVE CORRECTION' OR 'FINAL-STATE
 INTERACTION' OR 'EXCHANGE')
-DOUBLE EXCITATION (SEE 'EXCITED STATE')
-DOUBLE PAIR PRODUCTION (PAIR PRODUCTION,
 MULTIPLE PRODUCTION)
-DOUBLE PARTIAL WAVE CALCULUS
-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)
-DOUBLET (POSSIBLY 'MASS DIFFERENCE')
-DRELL (*MODEL, DEEP INELASTIC SCATTERING*;
 FOR DRELL EFFECT, 'MESON, PHOTOPRODUCTION' AND
 'EXCHANGE, ONE-MESON')
-DRELL RATIO
*DRELL-HEARN-GERASIMOV (SUM RULE,
 DRELL-HEARN-GERASIMOV)
*DRELL-LEVY-YAN (MODEL, DRELL-LEVY-YAN)
-DRELL-YAN (*MODEL, PARTON')
*DRELL-YAN-WEST (MODEL, DRELL-YAN-WEST)
-DRESSED PARTICLE (MODEL, PARTICLE)
-DRIFT CHAMBER (PROPORTIONAL CHAMBER, TIME
 MEASUREMENT)
-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 (FIELD THEORY, DUALITY)
-DUAL LOOP MODEL (FIELD THEORY, DUALITY)
*DUAL RESONANCE (*MODEL, DUAL RESONANCE*)
 DUALITY (USUALLY WITHOUT 'REGGE POLES')
*DUBNA CYCL
*DUBNA PS
*DUERR-PILKUHN (MODEL, DUERR-PILKUHN)
-DUFFIN-KEMMER (FIELD EQUATIONS)
-DUFFIN-KEMMER-PETIAU (FIELD EQUATIONS)
-DWBA (APPROXIMATION, DISTORTED WAVE BORN)
-DYNAMIC GROUP (GROUP THEORY)
-DYNAMICAL (NOT USED)
-DYON MODEL
-DYSON REPRESENTATION (SPECTRAL REPRESENTATION)
DYSPROSIUM

E{1422}
-ECONOMICS (SEE "EXPERIMENTAL EQUIPMENT,
PROPOSED" OR "ACCELERATOR, PROPOSED")
EFFECT (RESTRICTED USE)
-EFFECTIVE ACTION
*EFFECTIVE LAGRANGIANS ("CURRENT ALGEBRA,
EFFECTIVE LAGRANGIANS", OR "FIELD THEORY,
EFFECTIVE LAGRANGIANS")
*EFFECTIVE POTENTIAL (APPROXIMATION, EFFECTIVE
POTENTIAL)
*EFFECTIVE RANGE (APPROXIMATION, EFFECTIVE RANGE)
-EIGHTFOLD WAY (SYMMETRY, SU(3))
*EIKONAL ("APPROXIMATION, EIKONAL" OR "REGGE CUT")
EINSTEINUM
EJECTION
-ELASTIC CROSS SECTION ("ELASTIC SCATTERING")
ELASTIC SCATTERING
-ELASTICITY (ELASTIC SCATTERING, CHANNEL CROSS
SECTION)
ELECTRIC FIELD
ELECTRIC MOMENT
ELECTRICAL ENGINEERING
ELECTRICITY
ELECTROFISSION
ELECTROMAGNETIC
-ELECTROMAGNETIC FORM FACTOR (USE "FORM FACTOR")
ELECTROMAGNETIC INTERACTION (ALSO: "MODEL,
ELECTROMAGNETIC INTERACTION")
-ELECTROMAGNETIC MIXING (INTERFERENCE,
ELECTROMAGNETIC (RESTRICTED USE))
ELECTRON (USE ALSO WHEN CHARGE IS IRRELEVANT)
ELECTRON ANTI-KO
ELECTRON ANTI-N
ELECTRON ANTI-P
ELECTRON ANTIBARYON
ELECTRON ANTIHYPERON
ELECTRON ANTILAMBDA
ELECTRON ANTINUCLEON
ELECTRON ANTISIGMA
ELECTRON ANTIXI
ELECTRON BARYON
ELECTRON BARYON RESONANCE
ELECTRON BOSON
ELECTRON DEUTERIUM
ELECTRON ELECTRON (USE ALSO WHEN CHARGE IS
IRRELEVANT)
ELECTRON HADRON
ELECTRON HYPERON
ELECTRON INTERMEDIATE BOSON
ELECTRON K
ELECTRON K+
ELECTRON K-
ELECTRON KO
ELECTRON LAMBDA
ELECTRON LIGHT NUCLEUS
ELECTRON MESON
ELECTRON MESON RESONANCE
ELECTRON MUON
ELECTRON MUON+
ELECTRON MUON-
ELECTRON N
-ELECTRON NEUTRINO (NEUTRINO, ELECTRONE)
ELECTRON NUCLEON
ELECTRON NUCLEUS
ELECTRON OMEGA-
ELECTRON P
ELECTRON PI
ELECTRON PI+
ELECTRON PI-
ELECTRON PIO
ELECTRON POSITRON
ELECTRON QUARK
*ELECTRON RING (ACCELERATOR, ELECTRON RING)

ELECTRON SIGMA
ELECTRON SIGMA+
ELECTRON SIGMA-
ELECTRON SIGMAO
ELECTRON SYNCHROTRON
ELECTRON VECTOR MESON
ELECTRON XI
ELECTRON XI-
ELECTRON XIO
ELECTRONICS
ELECTROPRODUCTION (ALWAYS ASSIGNED WHEN PARTICLES
ARE ELECTROPRODUCED)
*ELECTROSTATIC
-ELECTROSTATIC ACCELERATOR (ACCELERATOR,
ELECTROSTATIC)
-ELECTROSTATIC SEPARATOR (USE "PARTICLE
SEPARATOR")
-ELEMENTARY LENGTH (SEE "FUNDAMENTAL CONSTANT,
LENGTH")
ELEMENTS
EMISSION
-ENCODER (SEE "PULSE-HEIGHT ANALYZER" OR
"READOUT")
ENERGY DEPENDENCE
ENERGY LEVELS
ENERGY LOSS
ENERGY SPECTRUM
-ENERGY-RANGE RELATION ("ENERGY LOSS")
*ENHANCEMENT ("TOTAL CROSS SECTION, ENHANCEMENT",
"DIFFERENTIAL CROSS SECTION, ENHANCEMENT"
"CROSS SECTION, ENHANCEMENT", "MASS,
ENHANCEMENT")
EPSILON(700)
-EQUAL-TIME COMMUTATOR ("CURRENT ALGEBRA" OR
"FIELD THEORY")
-EQUILIBRIUM (SEE "MECHANICS, STATISTICS")
*EQUIVALENT PHOTON (APPROXIMATION, EQUIVALENT
PHOTON)
ERBTUM
*EREVAN ES
-ETA ETA* MIXING (INTERFERENCE, ETA(549)-
ETA*(958))
-ETA(1070) (SEE "S*(1000)")
ETA(549)
ETA(549)-ETA(958)
-ETA(700-1000) (EPSILON(700))
ETA*(958)
EUROPTUM
-EVAPORATION MODEL (MULTIPLE PRODUCTION)
EXCHANGE
-EXCHANGE DEGENERACY ("REGGE POLES" AND "EXCHANGE,
DEGENERACY")
-EXCHANGE INTERFERENCE (EXCHANGE, INTERFERENCE)
-EXCHANGE MODEL (EXCHANGE)
-EXCITATION (SEE "EXCITED STATE" OR "EXCITED
NUCLEUS")
EXCITED NUCLEUS
EXCITED STATE
*EXCLUSIVE REACTION (WITH PARTICLES, E.G.
"ELECTRON P, EXCLUSIVE REACTION"; IF NOT
POSSIBLE, "MODEL, EXCLUSIVE REACTION")
*EXOTIC (COMBINATIONS USED: "RESONANCE,
EXOTIC", "MESON RESONANCE, EXOTIC")
*BARYON RESONANCE, EXOTIC)
*EXPERIMENTAL EQUIPMENT
*EXPERIMENTAL METHODS
*EXPERIMENTAL RESULTS
*EXTENDED PARTICLE (MODEL, EXTENDED PARTICLE)
*EXTENSIVE (SHOWERS, EXTENSIVE)
*EXTERNAL ("SYMMETRY, EXTERNAL")
-EXTERNAL FIELD

E

F+F MESON DOMINANCE (MODEL, F MESON DOMINANCE)
F(L260)
-F/D RATIO (COUPLING CONSTANT, D/F RATIO)
F'(1514)
-FABBRI PLOT (KINETICS)
*FACTORIZATION (REGGE POLES, FACTORIZATION)
-FADDEEV EQUATIONS (MANY-BODY PROBLEM)
-FAN-IN, FAN-OUT (FAST LOGIC)
FAST LOGIC
-FEEDBACK (SEE 'COUPLING'. IN CASE OF ACCELERATORS
SEE 'BEAM OSCILLATION' OR 'RF SYSTEM' OR
'CONTROL SYSTEM')
-FELDMAN ('MODEL, WEINBERG')
*FERMI GAS (MODEL, FERMI GAS)
-FERMI INTERACTION (SEE 'FERMION')
*FERMI-YANG (MODEL, FERMI-YANG)
FERMION (ALSO 'MODEL, FERMION + STATISTICS' FOR
FERMION MODEL)
FERMION ANTI-KO
FERMION ANTI-N
FERMION ANTI-P
FERMION ANTIBARYON
-FERMION ANTIFERMION INTERACTION (USE 'FERMION,
ANTIPARTICLE' AND 'FERMION FERMION,
INTERACTION')
FERMION ANTIHYPERON
FERMION ANTILAMBDA
FERMION ANTINEUTRINO
FERMION ANTINUCLEON
FERMION ANTISIGMA
FERMION ANTIXI
FERMION BARYON
FERMION BARYON RESONANCE
FERMION BOSON
FERMION DEUTERIUM
FERMION ELECTRON
FERMION FERMION
FERMION HADRON
FERMION HYPERON
FERMION INTERMEDIATE BOSON
FERMION K
FERMION K+
FERMION K-
FERMION KO
FERMION LAMBDA
FERMION LIGHT NUCLEUS
FERMION MESON
FERMION MESON RESCNCE
-FERMION MODEL (STATISTICS + MODEL, FERMION)
FERMION MUON
FERMION MUON+
FERMION MUON-
FERMION N
FERMION NEUTRINO
FERMION NUCLEON
FERMION NUCLEUS
FERMION OMEGA-
FERMION P
FERMION PI
FERMION PI+
FERMION PI-
FERMION PIO
FERMION POSITRON
FERMION QUARK
FERMION SIGMA
FERMION SIGMA+
FERMION SIGMA-
FERMION SIGMA0
FERMION VECTOR MESON
FERMION XI
FERMION XI-
FERMION XIO

FERMIUM
-FESR (SUM RULE, FINITE ENERGY)
*FEYNMAN (SCALING, FEYNMAN)
-FEYNMAN FLUID (USE 'SCALING, FEYNMAN')
-FEYNMAN GAS (USE 'SCALING, FEYNMAN')
-FEYNMAN GAUGE (FIELD THEORY, GAUGE)
FEYNMAN GRAPH (RESTRICTED USE)
-FEYNMAN INTEGRAL (USE 'FEYNMAN GRAPH')
-FEYNMAN MODEL
-FEYNMAN PATH (SEE 'ANALYTIC PROPERTIES')
-FEYNMAN RULE (SEE 'FEYNMAN GRAPH' OR
'PERTURBATION THEORY')
-FEYNMAN-KISSLINGER-RAVDAL MODEL (QUARK)
-FFAG (SYNCHROTRON OR CYCLOTRON)
FIELD EQUATIONS
-FIELD THEORETICAL MODEL (MODEL, FIELD THEORY
(RESTRICTED USE))
FIELD THEORY
-FIERZ CROSSING SYMMETRY (MODEL, FOUR-FERMION
INTERACTION)
FINAL STATE (RESTRICTED USE, EXAMPLE:
'FINAL STATE, (P 2PI)')
FINAL-STATE INTERACTION
*FINE STRUCTURE ('ATOMIC PHYSICS, FINE STRUCTURE')
*FINITE ENERGY ('SUM RULE, FINITE ENERGY')
*FINITE MASS ('SUM RULE, FINITE MASS')
*FINITE MOMENT ('SUM RULE, FINITE MOMENT')
*FIREBALL (MODEL, FIREBALL)
FISSION
-FIT ('INTERPRETATION OF EXPERIMENTS....'
(FOLLOWED BY THEORETICAL ADDITIVES). FOR NEW
METHOD USE 'DATA ANALYSIS METHOD')
*FIXED POLE (MODEL, FIXED POLE)
*FIXED-ANGLE
*FLASH TUBE (SPARK CHAMBER, FLASH TUBE)
*FLUID ANALOGY (MODEL, FLUID ANALOGY)
FLUORINE
FLUX
FLUX DISTRIBUTION
*FORBUSH (COSMIC RADIATION, FORBUSH)
FORCES
FORM FACTOR (IF APPROPRIATE, SPECIFIERS ARE
ADDED (EXAMPLE: 'FORM FACTOR, MAGNETIC'); NO
SPECIFIER IS USED FOR ELECTROMAGNETIC FORM
FACTORS)
*FORMULA (GENERALLY 'MASS, FORMULA')
*FOUR-COMPONENT NEUTRINO (MODEL, FOUR-COMPONENT
NEUTRINO)
*FOUR-FERMION INTERACTION (MODEL, FOUR-FERMION
INTERACTION)
FOUR-PI-DETECTOR (RESTRICTED USE, FREQUENTLY
USED FOR COLLIDING-BEAM DETECTORS)
*FRAGMENTATION ('BEAM, FRAGMENTATION' OR
'TARGET, FRAGMENTATION' OR, MORE GENERAL,
'MULTIPLE PRODUCTION, FRAGMENTATION')
FRANCIM
*FRASCATI ES
*FRASCATI STOR
-FREQUENCY GENERATION (SEE 'MICROWAVES')
-FREQUENCY MEASUREMENT (SEE 'MICROWAVES')
*FRIEDMON (MODEL, FRIEDMON)
-FRITZSCH-GELL-MANN (LIGHT CONE BEHAVIOR)
*FROISSART BOUND (HIGH ENERGY BEHAVIOR, FROISSART
BOUND)
-FROISSART-GRIBOV MODEL ('PARTIAL WAVE,
DISPERSION RELATIONS')
*FUBINI-FURLAN (MODEL, FUBINI-FURLAN)
FUNDAMENTAL CONSTANT
-FUNDAMENTAL LENGTH (FUNDAMENTAL CONSTANT, LENGTH)
FUSION
-F1 MESON RESONANCE ('PI/RHO(1540)')
-F1(1540) (PI/RHO(1540))

-G MESON RESONANCE (*RHO(1660)*)
*G PARITY (QUANTUM NUMBER, G PARITY)
G(1680)
-G-2 (MAGNETIC MOMENT)
GADOLINIUM
-GALILEI GROUP (SEE "GROUP THEORY")
GALLIUM
-GAMMA MONOCHROMATOR (PHOTON, MONOCHROMATIC BEAM)
GAS
-GAS ANALOG MODEL
-GATE (LINEAR GATE: ANALOG CIRCUIT, LOGIC GATE: DIGITAL LOGIC)
*GAUGE ("INvariance, GAUGE" OR "TRANSFORMATION, GAUGE" OR "FIELD THEORY, GAUGE")
GEIGER-MUELLER COUNTER
*GELL-MANN-LOW (RENORMALIZATION, GELL-MANN-LOW)
*GELL-MANN-OAKES-RENNER (*MODEL, GELL-MANN-OAKES-RENNER)
*GELL-MANN-OKUBO (MODEL, GELL-MANN-OKUBO)
-GELL-MANN-SHARP-WAGNER (COUPLING, PI-RHO(765)-OMEGA(784))
*GENERAL (RELATIVITY THEORY, GENERAL)
-GENERALIZED VECTOR DOMINANCE (*MODEL, VECTOR DOMINANCE)
*GEORGI-GLASHOW (MODEL, GEORGI-GLASHOW)

GERMANIUM
-GERMANIUM-LITHIUM COUNTER (SOLID-STATE COUNTER) G
-GIANT RESONANCE (NUCLEAR PROPERTIES + RESONANCE)
GLASS
*GLAUBER (MODEL, GLAUBER)
-GLAUBER-MARGOLIS MODEL (MODEL, GLAUBER)
*GLUON (MODEL, GLUON)
GOLD
-GOLDBERGER-TREIMAN RELATION (MODEL, PCAC + PI, DECAY)
-GOLDSTONE BOSON (FIELD THEORY, GOLDSTONE THEOREM)
-GOLDSTONE MODEL (USE "SYMMETRY, SPONTANEOUSLY BROKEN")
*GOLDSTONE THEOREM (FIELD THEORY, GOLDSTONE THEOREM)
GRAVITATION
-GRAVITATIONAL RADIATION ("GRAVITATION, RADIATION")
-GRAVITATIONAL WAVES ("GRAVITATION, RADIATION")
*GRAVITON (POSTULATED PARTICLE, GRAVITON)
-GREEN FUNCTION ("MATHEMATICS" OR "FIELD THEORY")
*GRIBOV (MODEL, GRIBOV)
-GRIBOV-POMERANCHUK (ANALYTIC PROPERTIES)
GROUP THEORY
-GUPTA-BLEULER (QUANTUM ELECTRODYNAMICS)

H HADRON
HADRON ANTI-KO
HADRON ANTI-N
HADRON ANTI-P
HADRON ANTIBARYON
HADRON ANTIHYPERON
HADRON ANTILAMBDA
HADRON ANTINUCLEON
HADRON ANTISIGMA
HADRON ANTIXI
HADRON BARYON
HADRON BARYON RESONANCE
HADRON BOSON
HADRON DEUTERIUM
HADRON HADRON
HADRON HYPERON
HADRON INTERMEDIATE BOSON
HADRON K
HADRON K+
HADRON K-
HADRON KO
HADRON LAMBDA
HADRON LIGHT NUCLEUS
HADRON MESON
HADRON MESON RESONANCE
-HADRON MODEL (MODEL, PARTICLE)
HADRON N
HADRON NUCLEON
HADRON NUCLEUS
HADRON OMEGA-
HADRON P
HADRON PI
HADRON PI+
HADRON PI-
HADRON PIO
HADRON QUARK
-HADRON RESONANCE ("MESON RESONANCE" AND
"BARYON RESONANCE")
HADRON SIGMA
HADRON SIGMA+
HADRON SIGMA-
HADRON SIGMAO
HADRON VECTOR MESON
HADRON XI
HADRON XI-
HADRON XIO
HAFNIUM
-HAGEDORN MODEL (MODEL, THERMODYNAMICAL)
*HAN-NAMBU (MODEL, HAN-NAMBU)
*HARARI (MODEL, HARARI)
-HARARI-FREUND MODEL (SEE "DUALITY")
-HARARI-ROSNER MODEL (SEE "DUALITY")
*HARD CORE (MODEL, HARD CORE)
-HARD MESON (CURRENT ALGEBRA, EFFECTIVE
LAGRANGIANS)
-HARD PHOTON ("RADIATIVE CORRECTION")
-HARD PION (CURRENT ALGEBRA, EFFECTIVE
LAGRANGIANS)
-HARMONIC OSCILLATOR (MODEL, OSCILLATOR)
*HARTREE-FOCK ("APPROXIMATION, HARTREE-FOCK" FOR
SELF-CONSISTENT CALCULATIONS IN QUANTUM
MECHANICS)
HEALTH PHYSICS
HEAT ENGINEERING
*HEAVY
-HEAVY ION ("ION, HEAVY". HEAVY-ION PHYSICS IS
INCLUDED WHEN PARTICLE ENERGY IS \geq 100
MEV/NUCLEON. HEAVY-ION ACCELERATOR TECHNOLOGY IS
GENERALLY INCLUDED)
*HEAVY LEPTON ("POSTULATED PARTICLE, HEAVY
LEPTON")
-HEAVY WATER (DEUTERIUM, WATER)
HELICITY
HELIUM
-HIDDEN VARIABLES (QUANTUM MECHANICS)
*HIGGS (MODEL, HIGGS)
-HIGGS-KIBBLE ("MODEL, WEINBERG")
*HIGH (MOMENTUM TRANSFER, HIGH)
HIGH ENERGY BEHAVIOR (ONLY FOR THEORETICAL
MODELS IN THE ASYMPTOTIC RANGE, ONLY USED
WHERE CONTENT IS NOT IMPLICITLY CONTAINED IN
OTHER KEYWORDS SUCH AS "REGGE POLES")
-HIGH SPIN (SPIN, HIGH)
*HIGHER-ORDER (RESTRICTED USE, PREFERABLY WITH
INTERACTIONS, E.G. "WEAK INTERACTION,
HIGHER-ORDER" OTHERWISE WITH FIELD THEORY-
"FIELD THEORY, HIGHER-ORDER". ALSO "MAGNETIC
MOMENT, HIGHER-ORDER" (FROM SIXTH ORDER ON.
NOT USED FOR KO ANTI-KO))
-HILBERT SPACE (QUANTUM MECHANICS)
-HODOSCOPE ("LOCATION DETECTION", BUT NOT USED
FOR COMBINATIONS INVOLVING CHAMBERS)
-HODOSCOPE CHAMBER (SEE "SPARK CHAMBER, FLASH
TUBE")
HOLMIUM
*HWA ("MODEL, HWA")
-HYBRID MODEL ("MODEL, ABSORPTION" AND "REGGE
POLES")
HYBRID SYSTEM (USED ONLY WHEN 2 OR MORE CHAMBER
TYPES ARE USED IN ONE DETECTOR; WHEN BUBBLE
CHAMBERS ARE INVOLVED, ADD "BUBBLE CHAMBER")
*HYDRODYNAMICAL (MODEL, HYDRODYNAMICAL)
HYDROGEN
*HYPERCHARGE ("QUANTUM NUMBER, HYPERCHARGE" OR
"STRANGENESS")
HYPERFINE STRUCTURE
HYPERFRAGMENT
-HYPERNUCLEUS ("HYPERFRAGMENT")
HYPERON
HYPERON ANTIHYPERON
HYPERON BARYON RESONANCE
HYPERON DEUTERIUM
HYPERON HYPERON
HYPERON INTERMEDIATE BOSON
HYPERON LIGHT NUCLEUS
HYPERON NUCLEUS
HYPERON QUARK
HYPERON VECTOR MESON

*IMPACT PARAMETER (MODEL, IMPACT PARAMETER)
*IMPULSE (APPROXIMATION, IMPULSE)
INCLUSIVE REACTION
*INDEPENDENT EMISSION (MODEL, INDEPENDENT EMISSION)
*INDEPENDENT PARTICLE (MODEL, INDEPENDENT PARTICLE)
INDIUM
-INELASTIC SCATTERING (EITHER, E.G., 'ELECTRON P, INTERACTION' OR, E.G., 'ELECTRON P, DEEP INELASTIC SCATTERING')
-INFINITE MOMENTUM
*INFINITE-COMPONENT WAVE EQUATION (CURRENT ALGEBRA, INFINITE-COMPONENT WAVE EQUATION)
-INFRAPARTICLE
*INFRARED PROBLEM ('FIELD THEORY, INFRARED PROBLEM OR 'QUANTUM ELECTRODYNAMICS, INFRARED PROBLEM')
INJECTION
INORGANIC COMPOUNDS
-INSTABILITY (SEE 'BEAM OSCILLATION' OR 'SYNCHROTRON OSCILLATION' OR 'BETATRON OSCILLATION')
*INTERACTION (FOR NOVEL INTERACTIONS: 'MODEL, INTERACTION')
INTERFERENCE
INTERMEDIATE BOSON (ALSO 'MODEL, INTERMEDIATE BOSON')
-INTERMEDIATE NUCLEUS (USE 'EXCITED NUCLEUS')

-INTERMEDIATE STATE (SEE 'EXCHANGE' OR 'FINAL STATE')
*INTERNAL (SYMMETRY, INTERNAL)
-INTRANUCLEAR CASCADE ('CASCADE')
*INTERPRETATION OF EXPERIMENTS
*INTRANUCLEAR CASCADE (MODEL, INTRANUCLEAR CASCADE)
*INTRODUCTORY (RESTRICTED USE)
INVARIANCE
-INVARIANT PHASE SPACE (MODEL, STATISTICAL)
-INVERSE
IODINE
ION (SEE ALSO 'HEAVY ION')
-ION RING ACCELERATOR ('ACCELERATOR, ELECTRON RING')
IONIZATION
-IONIZATION CALORIMETER (IONIZATION CHAMBER + BEAM CALIBRATION)
IONIZATION CHAMBER
-IPS (MODEL, STATISTICAL)
IRIDIUM
IRON
-ISING MODEL (SEE 'MECHANICS, STATISTICS')
*ISOBAR (MODEL, ISOBAR)
*ISOCHRONOUS (CYCLOTRON, ISOCHRONOUS)
ISOSPIN
-ISOTOPE (NUCLIDE)

J(3100)
-JACOB-SLANSKY ('MODEL, MULTIPLE PRODUCTION')
*JAPANESE NL PS (AT IBARAKI)
*JET (MODEL, JET)
*JIN-MARTIN BOUND (HIGH ENERGY BEHAVIOR, JIN-MARTIN BOUND)
-JCHNSON-BAKER-WILLEY (QUANTUM ELECTRODYNAMICS)
*JOHNSON-TREIMAN (SYMMETRY, JOHNSON-TREIMAN + SYMMETRY, SU(6))

*JONA-LASINIO-NAMBU (MODEL, JONA-LASINIO-NAMBU)
*JOSEPHSON (EFFECT, JOSEPHSON)
-JOST FUNCTION (POTENTIAL SCATTERING)
-JOST-LEHMANN-CYSON REPRESENTATION (SPECTRAL REPRESENTATION)

K
K ANTI-KO
K ANTI-N
K ANTI-P
K ANTIBARYON
K ANTILAMBDA
K ANTINUCLEON
K ANTISIGMA
K BARYON
K BARYON RESONANCE
K DEUTERIUM
K HYPERON
K INTERMEDIATE BOSON
K K
K K+
K K-
K KO
K LAMBDA
K LIGHT NUCLEUS
K MESON RESONANCE
K N
K NUCLEON
K NUCLEUS
K P
K QUARK
K SIGMA
K VECTOR MESON
*K(L)
*K(S)
*(S)-K(L)
-K(1240) (Q REGION)
-K(1280-1400) (Q REGION)
K(1420)
K+
K+ ANTI-N
K+ ANTI-P
K+ ANTIBARYON
K+ ANTINUCLEON
K+ BARYON
K+ BARYON RESONANCE
K+ DEUTERIUM
K+ HYPERON
K+ INTERMEDIATE BOSON
K+ K+
K+ K-
K+ LAMBDA
K+ LIGHT NUCLEUS
K+ MESON RESONANCE
K+ N
K+ NUCLEON
K+ NUCLEUS
K+ P
K+ QUARK
K+ SIGMA
K+ VECTOR MESON
-K* EXCHANGE (EXCHANGE, K*(892))
K*(892)
K-
K- ANTI-N
K- ANTI-P

K- ANTIBARYON
K- ANTINUCLEON
K- BARYON
K- BARYON RESONANCE
K- DEUTERIUM
K- HYPERON
K- INTERMEDIATE BOSON
K- K-
K- LAMBDA
K- LIGHT NUCLEUS
K- MESON RESONANCE
K- N
K- NUCLEON
K- NUCLEUS
K- P
K- QUARK
K- VECTOR MESON
-KAELLEN-LEHMANN REPRESENTATION (SPECTRAL
REPRESENTATION)
-KAPPA (SEE 'PI K' AND 'PARTIAL-WAVE ANALYSIS')
*KHARKOV LINAC
-KHURI REPRESENTATION (REGGE POLES, MODEL)
-KIBBLE-HIGGS ('MODEL, WEINBERG')
-KICKER MAGNET (PULSED MAGNET)
*KIKKAWA-SAKITA-VIRASORO (MODEL, KIKKAWA-SAKITA-
VIRASORO)
-KIKKAWA-SAKITA-VIRASORO MODEL
-KINEMATIC SUPERSTRUCTURE (DUALITY)
KINEMATICS
-KLEIN-GORDON EQUATION ('FIELD EQUATIONS' OR
'QUANTUM MECHANICS, RELATIVISTIC')
*KNO (SCALING, KNO)
-KOBA-NIELSEN ('MODEL, DUAL RESONANCE')
-KOBA-NIELSEN-OLESEN SCALING (SCALING, KNO)
-KROLL-RUDERMAN (FIELD THEORY, LOW-ENERGY
THEOREM)
KRYPTON
-KUTI-WEISSKOPF (SEE 'MODEL, QUARK PARTON' AND
'SCALING' AND 'DEEP INELASTIC SCATTERING')
KO
KO ANTI-N
KO ANTI-P
KO ANTIBARYON
KO ANTINUCLEON
KO BARYON
KO BARYON RESONANCE
KO DEUTERIUM
KO INTERMEDIATE BOSON
KO K+
KO K-
KO KO
KO LIGHT NUCLEUS
KO MESON RESONANCE
KO N
KO NUCLEON
KO NUCLEUS
KO P
KO QUARK
KO VECTOR MESON

L117701
*LADDER (APPROXIMATION, LADDER)
-LAGRANGIAN MODEL (FIELD THEORY)
-LAMB SHIFT (RADIATIVE CORRECTION + ATOM, ENERGY LEVELS. POSSIBLY ALSO: 'QUANTUM ELECTRODYNAMICS, VALIDITY TEST')
LAMBDA
LAMBDA ANTILAMBDA
LAMBDA BARYON RESONANCE
LAMBDA DEUTERIUM
LAMBDA INTERMEDIATE BOSON
LAMBDA LAMBDA
LAMBDA LIGHT NUCLEUS
LAMBDA NUCLEUS
LAMBDA QUARK
LAMBDA SIGMA
LAMBDA VECTOR MESON
LAMBDA(1405)
LAMBDA(1815)
LAMBDA(1830)
LAMBDA(2100)
LAMBDA(2350J)
LAMBDA(2585)
LAMBDA(1520)
LAMBDA(1670)
LAMBDA''(1690)
*LAMPF LINAC (AT LOS ALAMOS)
-LANDAU MODEL (MODEL, HYDRODYNAMICAL)
LANTHANUM
*LASER (GENERALLY, 'OPTICS, LASER')
LAWRENCIUM
LEAD
*LEADING PARTICLE (MULTIPLE PRODUCTION, LEADING PARTICLE)
LECTURES
-LEE (SEE 'MODEL, WEINBERG')
-LEE MODEL (MODEL, FIELD THEORY)
-LEE-PRENTKI-ZUMINO MODEL
-LEFT-RIGHT SYMMETRY (SEE 'MULTIPLE PRODUCTION, CORRELATION')
-LEHMANN ELLIPSE (ANALYTIC PROPERTIES)
-LEHMANN-KAELLEN-UMEZAWA (SPECTRAL REPRESENTATION)
-LEHMANN-SYMANZIK-ZIMMERMANN FORMALISM (FIELD THEORY)
*LENGTH ('SCATTERING, LENGTH' OR 'RADIATION, LENGTH')
*LENINGRAD CYCL
*LENINGRAD PS
LEPTON
LEPTON ANTI-K0
LEPTON ANTI-N
LEPTON ANTI-P
LEPTON ANTIBARYON
LEPTON ANTIHYPERON
LEPTON ANTILAMBDA
-LEPTON ANTILEPTON INTERACTION (USE 'LEPTON, ANTI PARTICLE' AND 'LEPTON LEPTON, INTERACTION')
LEPTON ANTINEUTRINO
LEPTON ANTINUCLEON
LEPTON ANTISIGMA
LEPTON ANTIXI
LEPTON BARYON
LEPTON BARYON RESONANCE
LEPTON BOSON
LEPTON DEUTERIUM
LEPTON ELECTRON
LEPTON FERMION
LEPTON HADRON
LEPTON HYPERON
LEPTON INTERMEDIATE BOSON
LEPTON K
LEPTON K+
LEPTON K-
LEPTON K0
LEPTON LAMBDA
LEPTON LEPTON
LEPTON LIGHT NUCLEUS
LEPTON MESON
LEPTON MESON RESONANCE

LEPTON MUON
LEPTON MUON+
LEPTON MUON-
LEPTON N
LEPTON NEUTRINO
LEPTON NUCLEON
LEPTON NUCLEUS
-LEPTON NUMBER (*QUANTUM NUMBER, LEPTON*)
LEPTON OMEGA-
LEPTON P
LEPTON PI
LEPTON PI+
LEPTON PI-
LEPTON PIO
LEPTON POSITRON
LEPTON QUARK
LEPTON SIGMA
LEPTON SIGMA+
LEPTON SIGMA-
LEPTON SIGMAO
LEPTON VECTOR MESON
LEPTON XI
LEPTON XI-
LEPTON XIO
LEPTONIC DECAY
-LEPTONIC QUARK (LEPTON, QUARK)
-LEPTOPRODUCTION
-LEVEL CONVERTER (DIGITAL LOGIC)
*LIE (GROUP THEORY, LIE)
LIFETIME (USAGE IN ACCORDANCE WITH ROSENFIELD TABLES)
-LIGHT CONE ALGEBRA (LIGHT CONE BEHAVIOR)
LIGHT CONE BEHAVIOR
LIGHT NUCLEUS
LIGHT NUCLEUS INTERMEDIATE BOSON
LIGHT NUCLEUS LIGHT NUCLEUS
LIGHT NUCLEUS NUCLEUS
LIGHT NUCLEUS QUARK
-LIMITER (FAST LOGIC)
-LIMITING FRAGMENTATION (MODEL, FRAGMENTATION)
-LINE REVERSAL
LINEAR ACCELERATOR
-LINEAR AMPLIFIER (ANALOG CIRCUIT)
-LINEAR GATE (ANALOG CIRCUIT)
-LIPPMANN-SCHWINGER (QUANTUM MECHANICS, SCATTERING)
-LIPPMANN-SCHWINGER-ZIMMERMANN FORMALISM (AXIOMATIC FIELD THEORY)
LIQUID
-LIQUID ANALOGY MODEL (MODEL, FLUID ANALOGY)
LITHIUM
-LOCALITY (AXIOMATIC FIELD THEORY)
-LOCALIZATION (AXIOMATIC FIELD THEORY)
LOCATION DETECTION
-LOGIC (IF DIGITAL, 'DIGITAL LOGIC', IF IN NANOSECOND RANGE, 'FAST LOGIC')
-LOGIC GATE (DIGITAL LOGIC)
*LONG-RANGE (USE ONLY AS 'CORRELATION, LONG-RANGE'. DO NOT USE FOR LONG-RANGE FORCES)
*LONGITUDINAL (RESTRICTED USE, SEE ALSO 'LONGITUDINAL MOMENTUM')
-LONGITUDINAL BEAM OSCILLATION (SYNCHROTRON OSCILLATION)
LONGITUDINAL MOMENTUM
*LONGITUDINAL PHASE SPACE (MULTIPLE PRODUCTION, LONGITUDINAL PHASE SPACE)
-LOOP DIAGRAM (FEYNMAN GRAPH)
*LORENTZ ('GROUP THEORY, LORENTZ' (RESTRICTED USE) OR 'INVARIANCE, LORENTZ' (RESTRICTED USE) OR 'TRANSFORMATION, LORENTZ')
*LOW (MOMENTUM TRANSFER, LOW)
LOW TEMPERATURE
*LOW-ENERGY THEOREM (FIELD THEORY, LOW-ENERGY THEOREM)
-LPS ANALYSIS ('MULTIPLE PRODUCTION, LONGITUDINAL PHASE SPACE ANALYSIS')
-LSZ FORMALISM (FIELD THEORY)
*LUMINOSITY (STORAGE RING, LUMINOSITY)
*LUND ES
LUTETIUM

M

MAGNESIUM
MAGNET
*MAGNETIC (SEE ALSO 'MAGNETIC FIELD' OR 'MAGNETIC MOMENT' OR 'POSTULATED PARTICLE, MAGNETIC MONPOLE' OR 'MAGNETIC SPECTROMETER')
-MAGNETIC DETECTOR (IN CASE OF LARGE-ANGLE DETECTORS USE APPROPRIATE KEYWORDS FOR CHAMBERS AND ADD 'MAGNETIC FIELD'. FOR NARROW-ANGLE DETECTORS USE 'MAGNETIC SPECTROMETER')
MAGNETIC FIELD (ALSO FOR STORAGE-RING EXPERIMENTS WHEN APPLICABLE)
MAGNETIC MOMENT
*MAGNETIC MONPOLE (*POSTULATED PARTICLE, MAGNETIC MONPOLE)
MAGNETIC SPECTROMETER
*MAGNETOSTRICTIVE (SPARK CHAMBER, MAGNETOSTRICTIVE)
MANDELSTAM REPRESENTATION
MANGANESE
MANUAL
MANY-BODY PROBLEM
*MANY-BOSON (EXCHANGE, MANY-BOSON)
MASS
MASS DIFFERENCE
-MASS RATIO
MASS SPECTRUM (RESTRICTED USE)
-MASS SPLITTING (MASS DIFFERENCE)
-MASS-ZERO PIONS (π , MASSLESS)
*MASSIVE
*MASSLESS
MATHEMATICS
MATTER
-MAXIMUM-LIKELIHOOD METHOD (SEE 'DATA ANALYSIS METHOD')
MEASUREMENT
MECHANICAL ENGINEERING
MECHANICS
-MEDICINE (SEE 'HEALTH PHYSICS')
-MELLIN TRANSFORMATION (TRANSFORMATION)
*MELOSH (TRANSFORMATION, MELOSH)
MEMORY (FREQUENTLY 'PULSE-HEIGHT ANALYZER')
MENDELEVUM
MERCURY
-MESIC ATOM ('MESON, ATOM')
-MESIC MOLECULE ('MESON, ATOM' AND 'MESON, MOLECULE')
MESON (ALSO: 'MODEL, MESON')
MESON ANTI-K0
MESON ANTI-N
MESON ANTI-P
MESON ANTIBARYON
MESON ANTIHYPERON
MESON ANTILAMBDA
MESON ANTINUCLEON
MESON ANTISIGMA
MESON ANTI XI
MESON BARYON
MESON BARYON RESONANCE
MESON BOSON
MESON DEUTERIUM
*MESON DOMINANCE (MODEL, MESON DOMINANCE)
-MESON EXCHANGE (EXCHANGE, MESON)
MESON HYPERON
MESON INTERMEDIATE BOSON
MESON K
MESON K+
MESON K-
MESON K0
MESON LAMBDA
MESON LIGHT NUCLEUS
MESON MESON
MESON MESON RESONANCE
MESON N
MESON NUCLEON
MESON NUCLEUS
MESON OMEGA-
MESON P
MESON PI
MESON PI+
MESON PI-
MESON PIO
MESON QUARK
MESON RESONANCE
MESON RESONANCE ANTI-N
MESON RESONANCE ANTI-P
MESON RESONANCE ANTIBARYON
MESON RESONANCE ANTIHYPERON
MESON RESONANCE ANTILAMBDA
MESON RESONANCE ANTINUCLEON
MESON RESONANCE ANTISIGMA
MESON RESONANCE ANTI XI
MESON RESONANCE BARYON
MESON RESONANCE BARYON RESONANCE
MESON RESONANCE DEUTERIUM
MESON RESONANCE HYPERON
MESON RESONANCE LAMBDA
MESON RESONANCE LIGHT NUCLEUS
MESON RESONANCE MESON RESONANCE
MESON RESONANCE N
MESON RESONANCE NUCLEON
MESON RESONANCE NUCLEUS
MESON RESONANCE OMEGA-
MESON RESONANCE P
MESON RESONANCE QUARK
MESON RESONANCE SIGMA
MESON RESONANCE SIGMA+
MESON RESONANCE SIGMA-
MESON RESONANCE SIGMAO
MESON RESONANCE VECTOR MESON
MESON XI
MESON XI-
MESON XIO
METAL
-MICROCAUSALITY (AXIOMATIC FIELD THEORY, CAUSALITY)
-MICROTRON (CYCLOTRON, ELECTRON)
MICROWAVES
MINERAL
*MISSING-MASS (SPECTROMETER, MISSING-MASS)
-MIXING ("INTERFERENCE" (RESTRICTED USE))
MODEL (WITHOUT SECOND TERM: RESTRICTED USE)
-MOEBIUS TRANSFORMATION (TRANSFORMATION)
MOLECULAR BIOLOGY
*MOLECULE
MOLYBDENUM
MOMENT
MOMENTUM
MOMENTUM TRANSFER
MONITORING
*MONOCHROMATIC BEAM (PHOTON, MONOCHROMATIC BEAM)
*MONTE CARLO (NUMERICAL CALCULATIONS, MONTE CARLO)
*MOSCOW ITEF PS
*MOSCOW RI PS
*MUELLER ('MODEL, MUELLER')
*MULTI-REGGE (REGGE POLES, MULTI-REGGE)
-MULTILOOP (FIELD THEORY, DUALITY)
*MULTIMESON (EXCHANGE, MULTIMESON)
*MULTIPERIPHERAL (MODEL, MULTIPERIPHERAL)
*MULTIPHOTON (EXCHANGE, MULTIPHOTON + PERTURBATION THEORY)
*MULTIPION (EXCHANGE, MULTIPION)
MULTIPLE
MULTIPLE PRODUCTION
MULTIPLE SCATTERING
MULTIPLET
MULTIPLEXITY
*MULTIPOLE ("PARTIAL-WAVE ANALYSIS, MULTIPOLE")
-MULTIPOMERON (USE 'POMERON')
-MULTIREGGEON (SEE 'REGGE POLES')
MUON
MUON ANTI-K0
MUON ANTI-N
MUON ANTI-P
MUON ANTIBARYON
MUON ANTIHYPERON
MUON ANTILAMBDA
MUON ANTINUCLEON
MUON ANTISIGMA
MUON ANTI XI
MUON BARYON
MUON BARYON RESONANCE
MUON BOSON
MUON DEUTERIUM
MUON HADRON
MUON HYPERON
MUON INTERMEDIATE BOSON
MUON K
MUON K+
MUON K-
MUON K0
MUON LAMBDA
MUON LIGHT NUCLEUS
MUON MESON
MUON MESON RESONANCE
MUON MUON
MUON MUON+
MUON MUON-
MUON N

M

-MUON NEUTRINO (NEUTRINO, MUON)	MUON+ SIGMA
MUON NUCLEON	MUON+ SIGMA+
MUON NUCLEUS	MUON+ SIGMA-
MUON OMEGA-	MUON+ SIGMAO
MUON P	MUON+ VECTOR MESON
MUON PI	MUON+ XI
MUON PI+	MUON+ XI-
MUON PI-	MUON+ XIO
MUON PIO	MUON-
MUON QUARK	MUON- ANTI-K0
MUON SIGMA	MUON- ANTI-N
MUON SIGMA+	MUON- ANTI-P
MUON SIGMA-	MUON- ANTIBARYON
MUON SIGMAO	MUON- ANTIHYPERON
MUON VECTOR MESON	MUON- ANTILAMBDA
MUON XI	MUON- ANTINUCLEON
MUON XI-	MUON- ANTISIGMA
MUON XIO	MUON- ANTIXI
MUON+	MUON- BARYON
MUON+ ANTI-K0	MUON- BARYON RESONANCE
MUON+ ANTI-N	MUON- BOSON
MUON+ ANTI-P	MUON- DEUTERIUM
MUON+ ANTIBARYON	MUON- HADRON
MUON+ ANTIHYPERON	MUON- HYPERON
MUON+ ANTILAMBDA	MUON- INTERMEDIATE BOSON
MUON+ ANTINUCLEON	MUON- K
MUON+ ANTISIGMA	MUON- K+
MUON+ ANTIXI	MUON- K-
MUON+ BARYON	MUON- KO
MUON+ BARYON RESONANCE	MUON- LAMBDA
MUON+ BOSON	MUON- LIGHT NUCLEUS
MUON+ DEUTERIUM	MUON- MESON
MUON+ HADRON	MUON- MESON RESONANCE
MUON+ HYPERON	MUON- MUON-
MUON+ INTERMEDIATE BOSON	MUON- N
MUON+ K	MUON- NUCLEON
MUON+ K+	MUON- NUCLEUS
MUON+ K-	MUON- OMEGA-
MUON+ KO	MUON- P
MUON+ LAMBDA	MUON- PI
MUON+ LIGHT NUCLEUS	MUON- PI+
MUON+ MESON	MUON- PI-
MUON+ MESON RESONANCE	MUON- PIO
MUON+ MUON+	MUON- QUARK
MUON+ MUON-	MUON- SIGMA
MUON+ N	MUON- SIGMA+
MUON+ NUCLEON	MUON- SIGMA-
MUON+ NUCLEUS	MUON- SIGMAO
MUON+ OMEGA-	MUON- VECTOR MESON
MUON+ P	MUON- XI
MUON+ PI	MUON- XI-
MUON+ PI+	MUON- XIO
MUON+ PI-	-MUONIC ATOM (*MUON, ATOM*)
MUON+ PIO	-MUONIUM (ELECTRON MUON, ATOM)
MUON+ QUARK	-MUOPRODUCTION (ELECTROPRODUCTION, MUON)

N
N ANTI-N
N ANTIHYPERON
N ANTILAMBDA
N ANTISIGMA
N ANTIXI
N BARYON RESONANCE
N DEUTERIUM
N HYPERON
N INTERMEDIATE BOSON
N LAMBDA
N LIGHT NUCLEUS
N N
N NUCLEUS
N OMEGA-
N QUARK
N SIGMA
N SIGMA+
N SIGMA-
N SIGMAO
N VECTOR MESON
N XI
N XI-
N XIO
N(1670)
N(1688)
N(1860)
N(2190)
N(2220)
N(2650)
N(3030)
-N-PION EXCHANGE (EXCHANGE, MULTIPION)
*N-POINT FUNCTION ("DUALITY, N-POINT FUNCTION"
OR "VENEZIANO MODEL, N-POINT FUNCTION" OR
"MODEL, N-POINT FUNCTION" OR "MANY-BODY
PROBLEM")
-N/D METHOD (PARTIAL WAVE, DISPERSION RELATIONS)
N'(1470)
N'(1520)
N'(1535)
N''(1700)
N'''(1780)
-NAKANISHI REPRESENTATION (SPECTRAL REPRESENTATION)
-NAMBU (MODEL, FIELD THEORY)
-NAMBU-GOLDSTONE (USE "SYMMETRY,
SPONTANEOUSLY BROKEN")
-NANOSECOND ELECTRONICS (FAST LOGIC)
*NARROW RESONANCE ("APPROXIMATION, NARROW
RESONANCE")
NEODYMIUM
NEON
NEPTUNIUM
-NEUTRAL (SEE "NEUTRAL CURRENT" OR "NEUTRAL
PARTICLE")
NEUTRAL CURRENT
NEUTRAL PARTICLE
-NEUTRALS (USE "NEUTRAL PARTICLE")
-NEUTRETTO (NEUTRINO, MUON)
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 DEUTERIUM
NEUTRINO ELECTRON
NEUTRINO HADRON
NEUTRINO HYPERON
NEUTRINO INTERMEDIATE BOSON
NEUTRINO K
NEUTRINO K+
NEUTRINO K-
NEUTRINO KO
NEUTRINO LAMBDA
NEUTRINO LIGHT NUCLEUS
NEUTRINO MESON
NEUTRINO MESON RESONANCE
NEUTRINO MUON
NEUTRINO MUON+
NEUTRINO MUON-
NEUTRINO N
NEUTRINO NEUTRINO
NEUTRINO NUCLEON
NEUTRINO NUCLEUS
NEUTRINO OMEGA-
NEUTRINO P
NEUTRINO PI
NEUTRINO PI+
NEUTRINO PI-
NEUTRINO PIO
NEUTRINO POSITRON
NEUTRINO QUARK
NEUTRINO SIGMA
NEUTRINO SIGMA+
NEUTRINO SIGMA-
NEUTRINO SIGMAO
NEUTRINO VECTOR MESON
NEUTRINO XI
NEUTRINO XI-
NEUTRINO XIO
-NEUTRON DETECTION (PARTICLE IDENTIFICATION, N)
-NEVEU-SCHWARZ MODEL ("MODEL, DUAL RESONANCE")
*NEW ELEMENT ("ELEMENT, NEW ELEMENT")
NEW PARTICLE
NICKEL
*NIMROD PS (AT CHILTON)
*NINA ES (AT DARESBURY)
NIOBIUM
NITROGEN
NOBELIUM
-NOETHER'S THEOREM ("GROUP THEORY" AND
"CONSERVATION LAW")
*NONABELIAN (FIELD THEORY, NONABELIAN)
*NONLEPTONIC DECAY
-NONLOCAL
-NONPOLYNOMIAL LAGRANGIANS (FIELD THEORY +
RENORMALIZATION)
NONRELATIVISTIC
*NONSTRANGE ("RESONANCE, NONSTRANGE")
-NORMAL PRODUCT
*NOVA (MODEL, NOVAJ)
*NOVOSIBIRSK STOR
NUCLEAR EMULSION
NUCLEAR ENGINEERING
NUCLEAR FORCE
-NUCLEAR MEDICINE (HEALTH PHYSICS)
NUCLEAR MODEL (RESTRICTED USE: NUCLEAR-MODEL
PAPERS ARE NOT GENERALLY INCLUDED)
NUCLEAR PHYSICS
NUCLEAR PROPERTIES
NUCLEAR REACTION
-NUCLEAR RESONANCE (SEE "EXCITED NUCLEUS")
NUCLEON
NUCLEON ANTI-N
NUCLEON ANTI-P
NUCLEON ANTIHYPERON
NUCLEON ANTILAMBDA
NUCLEON ANTINUCLEON
NUCLEON ANTISIGMA
NUCLEON ANTIXI
NUCLEON BARYON RESONANCE
NUCLEON DEUTERIUM
NUCLEON HYPERON
NUCLEON INTERMEDIATE BOSON
-NUCLEON ISOBAR (NUCLEON RESONANCE)
NUCLEON LAMBDA
NUCLEON LIGHT NUCLEUS
NUCLEON N
NUCLEON NUCLEON
NUCLEON NUCLEUS
NUCLEON OMEGA-
NUCLEON P
NUCLEON QUARK
NUCLEON RESONANCE
NUCLEON SIGMA
NUCLEON SIGMA+
NUCLEON SIGMA-
NUCLEON SIGMAO
NUCLEON VECTOR MESON
NUCLEON XI
NUCLEON XI-
NUCLEON XIO
NUCLEUS
NUCLEUS INTERMEDIATE BOSON
NUCLEUS NUCLEUS
NUCLEUS QUARK
NUCLIDE
NUMERICAL CALCULATIONS
NUMERICAL MATHEMATICS

*O(3) (SYMMETRY, O(3))
*O(3,1) (SYMMETRY, O(3,1))
*O(4) (SYMMETRY, O(4))
*O(4,2)
-OBEC (EXCHANGE, ONE-BOSON)
*OCTET DOMINANCE (MODEL, OCTET DOMINANCE)
-OFF-MASS-SHELL (MODEL, OFF-SHELL)
*OFF-SHELL (MODEL, OFF-SHELL)
-OMEGA SPECTROMETER (SEE 'MAGNETIC SPECTROMETER')
 OMEGA(1675)
 OMEGA(784)
*OMEGA(784)-PHI(1019) (INTERFERENCE, OMEGA(784)-
 PHI(1019))
OMEGA-
OMEGA- BARYON RESONANCE
OMEGA- DEUTERIUM
OMEGA- INTERMEDIATE BOSON
OMEGA- LIGHT NUCLEUS
OMEGA- NUCLEUS
OMEGA- CMEGA-
OMEGA- QUARK
OMEGA- VECTOR MESON
-OMEGA-PHI INTERFERENCE (INTERFERENCE, OMEGA(784)-
 PHI(1019))
-OMEGA-RHO INTERFERENCE (INTERFERENCE, RHO(765)-
 OMEGA(784))
*ON-LINE ("COMPUTER, ON-LINE" (NOT FOR PAPERS
 CONTAINING EXPERIMENTAL RESULTS, EXCEPT WHEN
 PARTICULARS ARE GIVEN))
-ON-MASS-SHELL ('MODEL, ON-SHELL')

*ON-SHELL (MODEL, ON-SHELL)
*ONE-BOSON (EXCHANGE, ONE-BOSON)
-ONE-LOOP APPROXIMATION (USE 'FEYNMAN GRAPH')
*ONE-MESON (EXCHANGE, ONE-MESON)
*ONE-PARTICLE (EXCHANGE, ONE-PARTICLE)
*ONE-PHOTON (EXCHANGE, ONE-PHOTON)
*ONE-PION (EXCHANGE, ONE-PION)
*ONE-VECTOR MESON (EXCHANGE, ONE-VECTOR MESON)
-OPE (EXCHANGE, ONE-PION)
*OPE MODEL (EXCHANGE, ONE-PION)
*OPERATOR ALGEBRA ("FIELD THEORY,
 OPERATOR ALGEBRA")
*OPERATOR PRODUCT ("FIELD THEORY,
 OPERATOR PRODUCT")
-OPERATOR PRODUCT EXPANSION ("FIELD THEORY,
 OPERATOR PRODUCT")
*OPTICAL (MODEL, OPTICAL)
-OPTICAL THEOREM (UNITARITY, TOTAL CROSS SECTION)
OPTICS
ORBIT
ORGANIC COMPOUNDS
*ORSAY CYCL
*ORSAY LINAC
*ORSAY STOR
*OSCILLATOR (MODEL, OSCILLATOR)
OSMIUM
*OVERLAPPING RESONANCES (MODEL, OVERLAPPING
 RESONANCES)
OXYGEN

P
P ANTI-N
P ANTIHYPERON
P ANTILAMBDA
P ANTISIGMA
P ANTIXI
P BARYON RESONANCE
P DEUTERIUM
P HYPERON
P INTERMEDIATE BOSON
P LAMBDA
P LIGHT NUCLEUS
P N
P NUCLEUS
P OMEGA-
P P
P QUARK
P SIGMA
P SIGMA+
P SIGMA-
P SIGMAO
P VECTOR MESON
P XI
P XI-
P XIO
-P-WAVE (PARTIAL WAVE)
*PADE (APPROXIMATION, PADE)
PAIR
PAIR PRODUCTION
PALLADIUM
*PARAMETRIZATION (FOR FUNCTIONAL FITS USE
'INTERPRETATION OF EXPERIMENTS, PARAMETRIZATION'
OR 'NUMERICAL MATHEMATICS, PARAMETRIZATION', FOR
NEW METHODS USE 'DATA ANALYSIS METHOD')
*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 ANTI PARTICLE
PARTICLE IDENTIFICATION
-PARTICLE MODELS ('MODEL, PARTICLE' (RESTRICTED
USE) OR 'MODEL, FERMION' OR 'MODEL, BARYON' OR
'MODEL, BOSON' OR 'MODEL, MESON' OR 'MODEL,
PHOTON')
PARTICLE SEPARATOR
PARTICLE SOURCE
-PARTICLE-HOLE MODEL (NUCLEAR PROPERTIES)
*PARTON ('MODEL, PARTON'. SEE ALSO 'MODEL, QUARK
PARTON')
-PATTERN RECOGNITION (USE 'READOUT')
*PCAC (MODEL, PCAC)
*PCVC (MODEL, PCVC)
*PERIPHERAL (MODEL, PERIPHERAL)
PERTURBATION THEORY
-PEYROU PLOT (KINEMATICS)
-PHASE SHIFT (PARTIAL WAVE)
-PHASE SPACE ('KINEMATICS' FREQUENTLY ALSO
'MODEL, STATISTICAL')
-PHASE TRANSITION (SEE 'FIELD THEORY, CRITICAL
PHENOMENA')
-PHENOMENOLOGY (NOT USED)
PHI(10191)
-PHI(1650) (OMEGA(1675))
-PHI-TO-THE-NTH MODEL ('MODEL, FIELD THEORY')
PHOSPHORUS
-PHOTOABSORPTION (PHOTON, ABSORPTION)
PHOTOFISSION
-PHOTOMULTIPLIER (GENERALLY NOT INCLUDED. SEE
SCINTILLATION COUNTER)
PHOTON (ALSO: 'MODEL, PHOTON')
PHOTON ANTI-KO
PHOTON ANTI-N
PHOTON ANTI-P
PHOTON ANTIBARYON
PHOTON ANTIHYPERON
PHOTON ANTILAMBDA
PHOTON ANTINEUTRINO
PHOTON ANTINUCLEON
PHOTON ANTISIGMA
PHOTON ANTIXI
PHOTON BARYON
PHOTON BARYON RESONANCE
PHOTON BOSON
PHOTON DEUTERIUM
PHOTON ELECTRON
-PHOTON EXCHANGE (EXCHANGE, PHOTON)
PHOTON FERMION

PHOTON HADRON
PHOTON HYPERON
PHOTON INTERMEDIATE BOSON
PHOTON K
PHOTON K+
PHOTON K-
PHOTON KO
PHOTON LAMBDA
PHOTON LEPTON
PHOTON LIGHT NUCLEUS
PHOTON MESON
PHOTON MESON RESONANCE
PHOTON MUON
PHOTON MUON+
PHOTON MUON-
PHOTON N
PHOTON NEUTRINO
PHOTON NUCLEON
PHOTON NUCLEUS
PHOTON OMEGA-
PHOTON P
PHOTON PHOTON
PHOTON PI
PHOTON PI+
PHOTON PI-
PHOTON PIO
PHOTON POSITRON
PHOTON QUARK
PHOTON SIGMA
PHOTON SIGMA+
PHOTON SIGMA-
PHOTON SIGMAO
-PHOTON SPLITTING (ELECTROMAGNETIC INTERACTION,
HIGHER-ORDER)
PHOTON VECTOR MESON
PHOTON XI
PHOTON XI-
PHOTON XIO
PHOTOPRODUCTION
PI
PI ANTI-KO
PI ANTI-N
PI ANTI-P
PI ANTIBARYON
PI ANTIHYPERON
PI ANTILAMBDA
PI ANTINUCLEON
PI ANTISIGMA
PI ANTIXI
PI BARYON
PI BARYON RESONANCE
PI DEUTERIUM
PI HYPERON
PI INTERMEDIATE BOSON
PI K
PI K+
PI K-
PI KO
PI LAMBDA
PI LIGHT NUCLEUS
PI MESON RESONANCE
PI N
PI NUCLEON
PI NUCLEUS
PI OMEGA-
PI P
PI PI
PI PI+
PI PI-
PI PIO
PI QUARK
PI SIGMA
PI SIGMA+
PI SIGMA-
PI SIGMAO
PI VECTOR MESON
PI XI
PI XI-
PI XIO
PI(1016)
-PI(1640) (A3(1640))
-PI(975) (DELTA(970))
PI+
PI+ ANTI-KO
PI+ ANTI-N
PI+ ANTI-P
PI+ ANTIBARYON
PI+ ANTIHYPERON
PI+ ANTILAMBDA
PI+ ANTINUCLEON
PI+ ANTISIGMA
PI+ ANTIXI
PI+ BARYON

P

PI+ BARYON RESONANCE
PI+ DEUTERIUM
PI+ HYPERON
PI+ INTERMEDIATE BOSON
PI+ K
PI+ K+
PI+ K-
PI+ KO
PI+ LAMBDA
PI+ LIGHT NUCLEUS
PI+ MESON RESONANCE
PI+ N
PI+ NUCLEON
PI+ NUCLEUS
PI+ OMEGA-
PI+ P
PI+ PI+
PI+ PI-
PI+ QUARK
PI+ SIGMA
PI+ SIGMA+
PI+ SIGMA-
PI+ SIGMAO
PI+ VECTOR MESON
PI+ XI
PI+ XI-
PI+ XIO
PI-
PI- ANTI-KO
PI- ANTI-N
PI- ANTI-P
PI- ANTIBARYON
PI- ANTIHYPERON
PI- ANTILAMBDA
PI- ANTINUCLEON
PI- ANTISIGMA
PI- ANTIXI
PI- BARYON
PI- BARYON RESNANCE
PI- DEUTERIUM
PI- HYPERON
PI- INTERMEDIATE BOSON
PI- K
PI- K+
PI- K-
PI- KO
PI- LAMBDA
PI- LIGHT NUCLEUS
PI- MESON RESONANCE
PI- N
PI- NUCLEON
PI- NUCLEUS
PI- OMEGA-
PI- P
PI- PI-
PI- QUARK
PI- SIGMA
PI- SIGMA+
PI- SIGMA-
PI- SIGMAO
PI- VECTOR MESON
PI- XI
PI- XI-
PI- XIO
PI/RHO(1540)
-PION EXCHANGE (*EXCHANGE, ONE-PION* OR *EXCHANGE,
MULTIPION*)
*PIONIZATION (*MULTIPLE PRODUCTION, PIONIZATION*)
PIO
PIO ANTI-KO
PIO ANTI-N
PIO ANTI-P
PIO ANTIBARYON
PIO ANTIHYPERON
PIO ANTILAMBDA
PIO ANTINUCLEON
PIO ANTISIGMA
PIO ANTIXI
PIO BARYON
PIO BARYON RESONANCE
PIO DEUTERIUM
PIO HYPERON
PIO INTERMEDIATE BOSON
PIO K
PIO K+
PIO K-
PIO KO
PIO LAMBDA
PIO LIGHT NUCLEUS
PIO MESON RESONANCE
PIO N
PIO NUCLEON
PIO NUCLEUS

PIO OMEGA-
PIO P
PIO PI+
PIO PI-
PIO PIO
PIO QUARK
PIO SIGMA
PIO SIGMA+
PIO SIGMA-
PIO SIGMAO
PIO VECTOR MESON
PIO XI
PIO XI-
PIO XIO
PLASMA
PLASTICS
PLATINUM
-PLOTTING METHODS (SEE 'DATA ANALYSIS METHOD'
(RESTRICTED USE))
PLUTONIUM
-POINCARE GROUP (GROUP THEORY, LORENTZ)
*POKORSKI-SATZ-SCHILLING (MODEL, POKORSKI-SATZ-
SCHILLING)
*POLARIZABILITY
POLARIZATION
*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-PCMERON COUPLING (PCMERON,
COUPLING)
*POSITION SENSITIVE (*COUNTERS AND DETECTORS,
POSITION SENSITIVE*)
-POSITIVITY (ANALYTIC PROPERTIES?)
POSITRON
POSITRON ANTI-KO
POSITRON ANTI-N
POSITRON ANTI-P
POSITRON ANTIBARYON
POSITRON ANTIHYPERON
POSITRON ANTILAMBDA
POSITRON ANTINUCLEON
POSITRON ANTISIGMA
POSITRON ANTIXI
PCPOSITRON BARYON
POSITRON BARYON RESONANCE
POSITRON BOSON
POSITRON DEUTERIUM
PCPOSITRON HADRON
POSITRON HYPERON
POSITRON INTERMEDIATE BOSON
POSITRON K
POSITRON K+
POSITRON K-
POSITRON KO
POSITRON LAMBDA
POSITRON LIGHT NUCLEUS
POSITRON MESON
POSITRON MESON RESONANCE
PCPOSITRON MUON
POSITRON MUON+
POSITRON MUON-
POSITRON N
POSITRON NUCLEON
POSITRON NUCLEUS
POSITRON OMEGA-
POSITRON P
POSITRON PI
POSITRON PI+
POSITRON PI-
POSITRON PIO
POSITRON POSITRON
POSITRON QUARK
POSITRON SIGMA
POSITRON SIGMA+
POSITRON SIGMA-
POSITRON SIGMAO
POSITRON VECTOR MESON
POSITRON XI
POSITRON XI-
POSITRON XIO
-POSITRONIUM (*ELECTRON POSITRON, ATOM*)
POSTULATED PARTICLE
POTASSIUM
POTENTIAL
-POTENTIAL MODEL (POTENTIAL SCATTERING)
POTENTIAL SCATTERING

P POWER ENGINEERING
POWER SUPPLY
PRASEODYMIUM
-PREDICTION ("PROPOSED EXPERIMENT, NUMERICAL CALCULATIONS")
-PREPROCESSING (USE "READOUT")
*PRIMAKOFF (EFFECT, PRIMAKOFF)
*PRIMARY (USE IN "COSMIC RADIATION, PRIMARY")
-PRIMEVAL FIREBALL (ASTROPHYSICS)
*PRINCETON PS
-PRISM PLOT (SEE "DATA ANALYSIS METHOD" (RESTRICTED USE))
-PROBABILITY ("STATISTICS")
PRODUCTION
-PRODUCTION CROSS SECTION ("PRODUCTION" + (GENERALLY) "TOTAL CROSS SECTION")
PROGRAMMING
-PROJECT ("EXPERIMENTAL EQUIPMENT, PROPOSED" OR "ACCELERATOR, PROPOSED")
PROMETHIUM
PROPAGATOR
PROPORTIONAL CHAMBER
PROPORTIONAL COUNTER
-PROPORTIONAL WIRE CHAMBER (PROPORTIONAL CHAMBER)

*PROPOSED ("EXPERIMENTAL EQUIPMENT, PROPOSED" OR "ACCELERATOR, PROPOSED")
PROPOSED EXPERIMENT
PROTACTINIUM
PROTON SYNCHROTRON
*PSEUDOSCALAR (RESTRICTED USE)
*PSEUDOSCALAR MESON DOMINANCE (MODEL, PSEUDOSCALAR MESON DOMINANCE)
*PSEUDOVECTOR (RESTRICTED USE. WHEN "PSEUDOVECTOR" + "VECTOR MESON" APPLICABLE, USE "VECTOR MESON" ONLY)
-PSI(3100) (J(3100))
PSI(3700)
-PSI(4100) (X(4100))
-PULSE ANALYZER (PULSE-HEIGHT ANALYZER)
-PULSE GENERATOR (NOT INCLUDED)
-PULSE LIMITER (FAST LOGIC)
-PULSE SHAPER (FAST LOGIC)
-PULSE SPECTROMETER (MAGNETIC SPECTROMETER + (COINCIDENCE METHOD OR SPARK CHAMBER))
PULSE-HEIGHT ANALYZER
PULSED MAGNET

Q Q REGION
-QC/2 SPECTROMETER (MAGNETIC SPECTROMETER)
QUADRUPOLE LENS
-QUANTAMETER ("IONIZATION CHAMBER" AND "BEAM MONITORING")
-QUANTIZATION ("QUANTUM MECHANICS", BUT "FIELD THEORY" FOR SECOND QUANTIZATION)
QUANTUM ELECTRODYNAMICS
QUANTUM MECHANICS
QUANTUM NUMBER
QUARK
QUARK ANTIQUARK

QUARK INTERMEDIATE BOSON
-QUARK MODEL (QUARK)
*QUARK PARTON (MODEL, QUARK PARTON)
QUARK QUARK
-QUARK SEARCH ("QUARK, POSTULATED PARTICLE", WHEN FOUND: "QUARK, NEW PARTICLE")
*QUARTET (MODEL, QUARTET)
*QUASICLASSICAL (MODEL, QUASICLASSICAL)
-QUASIELASTIC SCATTERING (USE ELASTIC SCATTERING)
*QUASIOPTICAL (MODEL, QUASIOPTICAL)
*QUASIPOTENTIAL (MODEL, QUASIPOTENTIAL)

RADIATION
-RADIATION LENGTH (RADIATION, LENGTH)
*RADIATIVE CAPTURE
RADIATIVE CORRECTION (FOR ELECTRON SCATTERING ONLY. IN OTHER CASES SEE "FEYNMAN GRAPH")
*RADIATIVE DECAY
RADIOACTIVITY
-RADIOCHEMISTRY ("RADIOACTIVITY" AND "CHEMISTRY")
RADIUM
RADON
-RAPID CYCLING BUBBLE CHAMBER (SEE "BUBBLE CHAMBER")
*RAPIDITY
*RARITA-SCHWINGER (MODEL, RARITA-SCHWINGER)
REACTION AMPLITUDE (RESTRICTED USE)
-REACTION MECHANISM
READOUT
-REAL TIME (SEE "CONTROL SYSTEM" AND "COMPUTER, ON-LINE")
RECOIL
*REFLECTION
*REGENERATION ("X0, REGENERATION")
REGGE CUT ("REGGE CUT, MODEL" ONLY FOR PAPERS TREATING MODELS)
REGGE POLES
-REGGEON (SEE "REGGE POLES")
-REGGEON COUPLING (REGGE POLES, COUPLING)
*REGGEON-PARTICLE (SEE "SCATTERING, REGGEON-PARTICLE" OR "COUPLING, REGGEON-PARTICLE")
-REGULARIZATION (RENORMALIZATION)
*RELATIVISTIC
-RELATIVISTIC QUANTUM MECHANICS (QUANTUM MECHANICS, RELATIVISTIC)
RELATIVITY THEORY
RENORMALIZATION
-REPRESENTATION (SEE "GROUP THEORY" OR "MANDELSTAM REPRESENTATION")
-REPRESENTATION THEORY (SEE "GROUP THEORY")

-REPULSION
-REPULSIVE CORE
-RESCATTERING (SEE "MULTIPLE SCATTERING")
RESONANCE (RESTRICTED USE FOR "MODEL, RESONANCE")
*RESONANCE DOMINANCE (MODEL, RESONANCE DOMINANCE)
-RESONANCE INTERACTION MODEL (MODEL, OVERLAPPING RESONANCES)
-RESONANCE MIXING (INTERFERENCE, RESONANCE)
*RESONANCE SCATTERING (MODEL, RESONANCE SCATTERING)
-RESONANCE SPECTROSCOPY ("MULTIPLET" OR "MASS, SPECTRA")
REVIEW
-RF SEPARATOR (PARTICLE SEPARATOR)
RF SYSTEM
RHENIUM
-RHO DOMINANCE MODEL (MODEL, VECTOR DOMINANCE)
-RHO EXCHANGE (EXCHANGE, RHO(1765))
-RHO(1660) (G(1680))
RHO(1710)
RHO(1765)
RHO(1765)+
RHO(1765)-
*RHO(1765)-OMEGA(1784) (INTERFERENCE, RHO(1765)-RHO(1765)-OMEGA(1784))
-RHO-OMEGA (INTERFERENCE, RHO(1765)-OMEGA(1784))
RHO*(1600)
RHODIUM
-ROPER RESONANCE (N*(1470))
*ROSENBLUTH FORMULA ("EXCHANGE, ONE-PHOTON", E.G., "ELECTRON P, ROSENBLUTH FORMULA")
-ROSS-STODOLSKY (RHO(1765), PHOTOPRODUCTION)
-ROTATION
*ROTATIONAL STATE (MODEL, ROTATIONAL STATE)
*ROTATOR (MODEL, ROTATOR)
RUBBER
RUBIDIUM
RUTHENIUM

R

S

S(1930)
S*(1000)
S-MATRIX
-S-WAVE ('PARTIAL WAVE')
*SACLAY CYCL
*SACLAY LINAC
*SACLAY PS
*SAKATA (MODEL, SAKATA)
-SALAM-STRATHDEE (FIELD THEORY, SUPERSYMMETRY)
-SALAM-WEINBERG MODEL (MODEL, WEINBERG)
SAMARIUM
-SAXON-WOODS ('POTENTIAL' OR 'POTENTIAL SCATTERING')
*SCALAR (RESTRICTED USE)
*SCALAR MESON (EXCHANGE, SCALAR MESON)
*SCALAR MESON DOMINANCE (MODEL, SCALAR MESON DOMINANCE)
-SCALER ('DIGITAL LOGIC')
SCALING (ALSO FOR SCALE INVARIANCE AND SCALING VIOLATION)
SCANDIUM
SCATTERING (RESTRICTED USE)
-SCATTERING AMPLITUDE ('S-MATRIX' IN FIELD THEORY, IN PHENOMENOLOGY DISREGARDED)
-SCATTERING LENGTH ('SCATTERING, LENGTH')
-SCHWINGER MODEL
-SCHWINGER SOURCE THEORY (FIELD THEORY)
*SCHWINGER TERMS ('CURRENT ALGEBRA, SCHWINGER TERMS')
SCINTILLATION COUNTER
-SCINTILLATOR (NOT INCLUDED IN SCOPE)
*SCREENING (EFFECT, SCREENING)
-SEARCH (POSTULATED PARTICLE)
-SECOND QUANTIZATION (FIELD THEORY)
-SECOND-CLASS CURRENT ('WEAK INTERACTION, CURRENT')
-SECONDARY PARTICLE
SECONDARY RADIATION
-SECONDARY-EMISSION MONITORING (BEAM MONITORING)
-SECTOR-FOCUSING CYCLOTRON (CYCLOTRON, ISOCRONOUS)
-SECURITY (SEE 'SHIELDING' OR 'HEALTH PHYSICS')
SELECTION RULE
SELENIUM
-SELF-CONSISTENT CALCULATION ('BOOTSTRAP' OR, IF QUANTUM MECHANICS, 'APPROXIMATION, HARTREE-FOCK')
-SELF-COUPLING
-SELF-ENERGY ('RENORMALIZATION' OR 'PROPAGATOR')
-SELF-INTERACTION ('RENORMALIZATION' OR 'PROPAGATOR')
-SEMICLASSICAL APPROXIMATION
SEMICONDUCTOR
-SEMIINCLUSIVE REACTION (INCLUSIVE REACTION)
*SEPARABLE POTENTIAL (MODEL, SEPARABLE POTENTIAL)
*SEPARATED-ORBIT (CYCLCTRDN, SEPARATED-CRBIT)
-SEPTUM MAGNET (SEE 'MAGNET, EJECTION')
*SERPUKHOV PS
-SEXTUPOLE LENS (QUADRUPOLE LENS, SPECIAL FOCUSING)
-SHADOW SCATTERING ('MODEL, OPTICAL')
*SHELL (MODEL, SHELL)
SHIELDING
*SHORT-DISTANCE BEHAVIOR (FIELD THEORY, SHORT-DISTANCE BEHAVIOR)
*SHORT-RANGE (USED ONLY AS 'CORRELATION, SHORT-RANGE'. NOT USED FOR SHORT-RANGE FORCES)
-SHOWER COUNTER (SEE 'TOTAL-ABSORPTION COUNTER')
SHOWERS
-SHRINKAGE ('HIGH ENERGY BEHAVIOR')
SIGMA (ALSO 'MODEL, SIGMA'. SEE ALSO 'SYMMETRY, CHIRAL' FOR SIGMA TERM MODEL)
SIGMA ANTISIGMA
SIGMA BARYON RESONANCE
SIGMA DEUTERIUM
SIGMA INTERMEDIATE BOSON
-SIGMA MODEL (MODEL, FIELD THEORY)
SIGMA NUCLEUS
SIGMA QUARK
-SIGMA TERM MODEL (SYMMETRY, CHIRAL)
SIGMA VECTOR MESON
SIGMA(1385)
SIGMA(1765)
SIGMA(1915)
SIGMA(2030)
SIGMA(2250)
SIGMA(2455)
SIGMA(2620)
SIGMA+
SIGMA+ BARYON RESONANCE
SIGMA+ DEUTERIUM
SIGMA+ INTERMEDIATE BOSON
SIGMA+ NUCLEUS

SIGMA+ QUARK
SIGMA+ SIGMA-
SIGMA+ SIGMAO
SIGMA+ VECTOR MESON
SIGMA-
SIGMA- BARYON RESONANCE
SIGMA- DEUTERIUM
SIGMA- INTERMEDIATE BOSON
SIGMA- NUCLEUS
SIGMA- QUARK
SIGMA- VECTOR MESON
SIGMA+(1670)
SIGMA+(1750)
SIGMA+(1940)
SIGMAO
SIGMAO BARYON RESONANCE
SIGMAO DEUTERIUM
SIGMAO INTERMEDIATE BOSON
SIGMAO NUCLEUS
SIGMAO QUARK
SIGMAO SIGMA-
SIGMAO VECTOR MESON
SILICON
SILVER
*SIN CYCL ZURICH
-SINGLE LOOP ('MODEL, DUAL RESONANCE' OR 'DUALITY, FIELD THEORY')
-SKELETON (FEYNMAN GRAPH)
*SL(2,C) (SYMMETRY, SL(2,C))
*SLAC LINAC (AT PALO ALTO)
*SLAC STOR (AT PALO ALTO)
*SMALL-ANGLE
-SMOKATRON (ACCELERATOR, ELECTRON RING)
*SO(2,2)
*SO(3)
SODIUM
*SOEDING (MODEL, SOEDING)
-SOFT PHOTON (RADIATIVE CORRECTION)
-SOFT PIONS ('CURRENT ALGEBRA, EFFECTIVE LAGRANGIANS' OR 'MODEL, PCAC')
SOLID-STATE COUNTER
SOLID(S)
-SONIC SPARK CHAMBER (SPARK CHAMBER, ACOUSTIC)
-SOURCE (SEE 'FIELD THEORY' OR 'PARTICLE SOURCE')
-SOURCE ALGEBRA ('CURRENT ALGEBRA')
*SPACE
-SPACE-TIME
-SPALLATION (USE 'FISSION')
SPARK CHAMBER
-SPARK COUNTER ('COUNTERS AND DETECTORS')
*SPECIAL FOCUSING (MAGNET, SPECIAL FOCUSING)
*SPECTATOR ('MODEL, SPECTATOR', POSSIBLY ALSO 'MODEL, DEUTERIUM')
SPECTRA
*SPECTRAL FUNCTION ('ANALYTIC PROPERTIES, SPECTRAL FUNCTION')
SPECTRAL REPRESENTATION
SPECTROMETER
SPIN
-SPIN FLIP
-SPIN-PARITY ANALYSIS (PARTIAL-WAVE ANALYSIS)
*SPINLESS (RESTRICTED USE; NOT USED FOR BOSONS)
SPINOR
-SPINOR FIELD THEORY ('FIELD THEORY, SPINOR')
-SPLITTING (SEE 'MASS DIFFERENCE')
*SPONTANEOUSLY BROKEN (SYMMETRY, SPONTANEOUSLY BROKEN)
-SPURION (SEE 'SYMMETRY, U(12)')
-SQUARE-WELL POTENTIAL (POTENTIAL SCATTERING)
*STACKING (INJECTION, STACKING)
*STANFORD LINAC MK3
-STATIC MODEL (SEE 'MODEL, CHEW-LOW')
*STATISTICAL (MODEL, STATISTICAL)
-STATISTICAL BOOTSTRAP (BOOTSTRAP, STATISTICAL)
-STATISTICAL MECHANICS (MECHANICS, STATISTICS)
-STATISTICAL TENSOR ('SPIN, DENSITY MATRIX')
STATISTICS
STEEL
*STICHEL THEOREM (SELECTION RULE, STICHEL THEOREM)
*STICHEL-SCHOLZ (MODEL, STICHEL-SCHOLZ)
-STOCHASTIC MODEL (MODEL, STATISTICAL)
*STODOLSKY-SAKURAI (MODEL, STODOLSKY-SAKURAI)
STORAGE RING
STRANGE PARTICLE
STRANGENESS
STREAMER CHAMBER
*STRING (MODEL, STRING)
*STRIP (APPROXIMATION, STRIP)
*STRONG ABSORPTION (MODEL, STRONG ABSORPTION)
*STRONG COUPLING (MODEL, STRONG COUPLING)
STRONG INTERACTION (ALSO: 'MODEL, STRONG INTERACTION')

STRONTIUM

*STRUCTURE FUNCTION (USE ONLY SINGLY. OCCURS WITH
'INCLUSIVE REACTION' OR 'DEEP INELASTIC
SCATTERING')
*SU(N) (SYMMETRY, SU(N))
*SU(N) X SU(N)
*SU(1,1)
*SU(2) (SYMMETRY, SU(2))
*SU(2) X SU(2) (SYMMETRY, SU(2) X SU(2))
*SU(2) X U(1)
*SU(2) X U(1) X SU(3)
*SU(2)W (SYMMETRY, SU(2)W)
*SU(2,2)
*SU(3) (SYMMETRY, SU(3))
*SU(3) X SU(3) (SYMMETRY, SU(3) X SU(3))
*SU(4)
*SU(4) X SU(4)
*SU(6) (SYMMETRY, SU(6))
*SU(6) X O(3)
*SU(6)W (SYMMETRY, SU(6)W)
*SUGAWARA (MODEL, SUGAWARA)
SULFUR

SUM RULE

SUPERCONDUCTING ('ACCELERATOR, SUPERCONDUCTING',
'LINEAR ACCELERATOR, SUPERCONDUCTING', 'MAGNET,
SUPERCONDUCTING')
*SUPERCONVERGENCE (SUM RULE, SUPERCONVERGENCE)
-SUPERFIELD (FIELD THEORY, SUPERSYMMETRY)
-SUPERGAUGE (FIELD THEORY, SUPERSYMMETRY)
-SUPERMULTIPLLET
-SUPERPOSITION ("INTERFERENCE" (RESTRICTED USE))
*SUPERPROPAGATOR (PROPAGATOR, SUPERPROPAGATOR)
*SUPERSELECTION RULE (SUM RULE, SUPERSELECTION
RULE)
*SUPERSYMMETRY (FIELD THEORY, SUPERSYMMETRY)
-SUPERWEAK INTERACTION ('MODEL, INTERACTION'.
USUALLY IN CONNECTION WITH STRANGE PARTICLES)
SYMMETRY
-SYMPLECTIC GROUP
SYNCHRO-CYCLOTRON
-SYNCHROPHASOTRON (SYNCHROTRON OR PROTON
SYNCHROTRON OR ELECTRON SYNCHROTRON)
SYNCHROTRON
SYNCHROTRON OSCILLATION

-T-MATRIX (S-MATRIX)
-T'HOFT (MODEL, WEINBERG)
TABLES
*TACHYON ('POSTULATED PARTICLE, TACHYON')
-TADPOLE (FEYNMAN GRAPH)
*TAGGED BEAM ('PHOTON, TAGGED BEAM' OR 'ELECTRON,
TAGGED BEAM')
-TALK (FOR CONFERENCE LECTURES AND REVIEWS,
'LECTURES' OR 'REVIEW' WILL BE USED. OTHER
CONFERENCE TALKS HAVE ENTRY [TALK] AFTER TITLE.)
-TAHM-DANCOFF APPROXIMATION
TANTALUM
TARGET
-TARGET POLARIZATION ('TARGET, POLARIZATION')
-TCP ('INVARINACE, CPT' OR 'VIOLATION, CPT')
TECHNETIUM
-TELESCOPE ('COINCIDENCE METHOD')
TELLURIUM
TEMPERATURE
*TENSOR (RESTRICTED USE)
*TENSOR MESON DOMINANCE (MODEL, TENSOR MESON
DOMINANCE)
TERBIUM
THALLIUM
THEORY OF ELEMENTARY PARTICLES
*THERMODYNAMICAL (MODEL, THERMODYNAMICAL)
THERMODYNAMICS
THESIS (INCLUDING SOME MASTERS' THESES)
-THIRRING MODEL ('MODEL, FIELD THEORY')
THORIUM
-THREE-BODY ANNIHILATION (ANNIHILATION, MULTIPLE
PRODUCTION)
THREE-BODY PROBLEM
-THREE-MESON (SEE 'EXCHANGE, MULTIMESON')
-THREE-PHOTON (SEE 'EXCHANGE, MULTIPHOTON')
-THREE-PION (SEE 'EXCHANGE, MULTIPION')
-THREE-POINT FUNCTION ('VENEZIANO MODEL, VERTEX
FUNCTION' OR 'DUALITY, VERTEX FUNCTION')
THRESHOLD
THULIUM
*TIME MEASUREMENT (SEE ALSO 'TIME-OF-FLIGHT
METHOD')
*TIME REVERSAL ('INVARINACE, TIME REVERSAL' OR
'VIOLATION, TIME REVERSAL')
TIME-OF-FLIGHT METHOD (ELECTRONIC TIME-OF-FLIGHT
METHODS: FAST LOGIC)
-TIME-TO-PULSE-HEIGHT CONVERTER (FAST LOGIC)
TIN
TITANIUM
*TOKYO ES
-TOLLER POLE MODEL (PARTIAL WAVE + ANALYTIC
PROPERTIES)

TOMSK ES

-TOPLOGICAL CROSS SECTION ('TOTAL CROSS
SECTION')
TOTAL CROSS SECTION (SEE ALSO 'CHANNEL CROSS
SECTION')
TOTAL-ABSORPTION COUNTER
*TOUSCHEK (EFFECT, TOUSCHEK)
-TPC (TIME-TO-PULSE-HEIGHT CONVERTER:
'FAST LOGIC')
-TRACK CHAMBER
TRACK DATA ANALYSIS
TRACK MEASURING
TRACK PHOTOGRAPHY
*TRACK SENSITIVE (COUNTERS AND DETECTORS, TRACK
SENSITIVE)
TRACKS
-TRAJECTORY (SEE 'REGGE POLES' OR 'REGGE CUT'.
NOT USED FOR PARTICLE TRAJECTORY)
TRANSFORMATION
*TRANSITION
-TRANSITION RADIATION (RADIATION, TRANSITION)
-TRANSITION RADIATION DETECTOR ('RADIATION,
TRANSITION' AND 'COUNTERS AND DETECTORS')
-TRANSMISSION (USE 'ABSORPTION')
*TRANSURANIUM (ELEMENTS, TRANSURANIUM)
*TRANSVERSE (RESTRICTED USE, SEE ALSO
'TRANSVERSE MOMENTUM')
-TRANSVERSE BEAM OSCILLATION (BETATRON
OSCILLATION)
TRANSVERSE MOMENTUM
-TREE APPROXIMATION (CURRENT ALGEBRA, EFFECTIVE
LAGRANGIANS)
-TREIMAN-YANG TEST (DECAY, ANGULAR DISTRIBUTION)
-TRIANGLE GRAPH ('FEYNMAN GRAPH')
-TRIGGERING ('COINCIDENCE METHOD')
-TRIPLE-POMERON COUPLING (POMERON, COUPLING)
*TRIPLET (MODEL, TRIPLET + QUARK)
TRITIUM
*TRIUMF CYCL (AT VANCOUVER)
-TRUSS GRAPH (APPROXIMATION, LADDER)
TUNGSTEN
-TWO-BODY (USE ONLY AS 'EXCHANGE, TWO-PARTICLE')
-TWO-COMPONENT (POSSIBLY 'DIFFRACTION,
DISSOCIATION' AND 'MODEL, MULTIPERIPHERAL')
*TWO-COMPONENT NEUTRINO (MODEL, TWO-COMPONENT
NEUTRINO)
*TWO-PARTICLE (EXCHANGE, TWO-PARTICLE)
*TWO-PHOTON (EXCHANGE, TWO-PHOTON)
*TWO-PION (EXCHANGE, TWO-PION)

U*U(12) (SYMMETRY, U(12))
U(2375)
*U(3) X U(3) (SYMMETRY, U(3) X U(3))
*U(6) (SYMMETRY, U(6))
*U(6,6) (SYMMETRY, U(6,6))
*U-SPIN (QUANTUM NUMBER, U-SPIN)
-UIR (GROUP THEORY)
-ULTRAVIOLET DIVERGENCE (RENORMALIZATION)
-UNIFIED FERMION (MODEL, FERMION)
*UNIFIED INTERACTION (FIELD THEORY, UNIFIED
INTERACTION)
UNITARITY (RESTRICTED USE)

-UNITARY IRREDUCIBLE REPRESENTATION (GROUP
THEORY)
-UNIVERSAL FERMI INTERACTION (MODEL, WEAK
INTERACTION)
*UNIVERSALITY ('ELECTRON MUON, UNIVERSALITY' OR
'WEAK INTERACTION, UNIVERSALITY' OR 'STRONG
INTERACTION, UNIVERSALITY' OR 'ELECTROMAGNETIC
INTERACTION, UNIVERSALITY')
*UR-CITON (MODEL, UR-CITON)
URANIUM
*URBARYON (MODEL, URBARYON)

V-V-A THEORY (MODEL, WEAK INTERACTION)
*V-SPIN (QUANTUM NUMBER, V-SPIN)
*VACUUM POLARIZATION (FIELD THEORY, VACUUM
POLARIZATION)
-VACUUM STATE ('FIELD THEORY')
VACUUM TECHNIQUES
*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 (SEE 'DATA ANALYSIS METHOD'
(RESTRICTED USE))
VANADIUM
*VARIABLE MASS (MODEL, VARIABLE MASS)
-VARIABLE-ENERGY CYCLOTRON (CYCLOTRON)
*VECTOR (RESTRICTED USE)
-VECTOR BOSON (SEE 'INTERMEDIATE BOSON' OR
'VECTOR MESON')
-VECTOR CURRENT (SEE 'CONSERVED VECTOR CURRENT'
OR 'CONSERVED A-V CURRENT' OR 'PCAC' OR 'PCVC')
*VECTOR DOMINANCE (MODEL, VECTOR DOMINANCE)

VECTOR MESON
VECTOR MESON BARYON RESONANCE
VECTOR MESON DEUTERIUM
-VECTOR MESON EXCHANGE (EXCHANGE, VECTOR MESON)
VECTOR MESON INTERMEDIATE BOSON
VECTOR MESON LIGHT NUCLEUS
VECTOR MESON NUCLEUS
VECTOR MESON QUARK
VECTOR MESON VECTOR MESON
-VECTOR-AXIAL-VECTOR THEORY (WEAK INTERACTION)
-VELOCITY SPECTROMETER (TIME-OF-FLIGHT METHOD)
VENEZIANO MODEL
VERTEX FUNCTION (RESTRICTED USE, GENERALLY ONLY
IN COMBINATIONS WITH PARTICLES)
VIOLATION
*VIRASORO (MODEL, VIRASORO)
-VIRASORO ALGEBRA (MODEL, VIRASORO)
-VIRTUAL (SEE ANY KIND OF ELECTRON INTERACTIONS)
-VIRTUAL PHOTOPRODUCTION (USE 'ELECTROPRODUCTION';
ADD ALSO 'PHOTOPRODUCTION' FOR Q-SQUARED $\rightarrow 0$)
-VON NEUMANN ALGEBRA (GROUP THEORY)
*VORTEX (SEE 'FIELD THEORY, VORTEX')

W-WALESKA MODEL (NUCLEAR PROPERTIES)
*WANG (MODEL, WANG)
-WARD IDENTITY (USE 'QUANTUM
ELECTRODYNAMICS, WARD-TAKAHASHI IDENTITY')
*WARD-TAKAHASHI IDENTITY (QUANTUM ELECTRODYNAMICS,
WARD-TAKAHASHI IDENTITY)
WATER
-WAVE EQUATION (QUANTUM MECHANICS)
-WAVE FUNCTION (QUANTUM MECHANICS)
-WAVE PACKET (QUANTUM MECHANICS)
*WEAK ABSORPTION (MODEL, WEAK ABSORPTION)
-WEAK COUPLING (PERTURBATION THEORY)
WEAK INTERACTION (ALSO: 'MODEL, WEAK
INTERACTION')
*WEINBERG ('MODEL, WEINBERG')
-WEINBERG THEORY (PERTURBATION THEORY?)
-WEIZSAECKER-WILLIAMS (APPROXIMATION,
EQUIVALENT PHOTON)

-WEISS-ZUMINO (FIELD THEORY, SUPERSYMMETRY)
*WICK-CUTKOSKY (MODEL, WICK-CUTKOSKY)
-WIDE-ANGLE ('SPECTROMETER, WIDE-ANGLE' OR, E.G.,
'PRODUCTION, WIDE-ANGLE')
*WIDE-GAP (SPARK CHAMBER, WIDE-GAP)
-WIDTH (USAGE IN ACCORDANCE WITH ROSENFIELD TABLES)
-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{4100)
XENON
XI
XI BARYON RESONANCE
XI DEUTERIUM
XI INTERMEDIATE BOSON
XI LIGHT NUCLEUS
XI NUCLEUS
XI QUARK
XI VECTOR MESON
XI XI
XI{1530)
XI{1820)
XI{1940)
XI-

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

X

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

YTTERBIUM
YTTRIUM
*YUKAWA (POTENTIAL, YUKAWA)

Y

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

ZINC
-ZINN-JUSTIN ("MODEL, WEINBERG")
ZIRCONIUM

Z

