

Memo CP-D/274
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To: Distribution

10 January 1997

From: O.Schwerer

Subject: Dictionary transmission 9072

Dictionary transmission 9072 is available by FTP from our open area (as usual in 2 formats: TRANS 9072 and in DANIEL backup format, DAN_BACK.9072).

We are sending it on diskette to CJD, CAJaD and CNDC. The other centers are asked to pick it up from our open area by FTP. The procedure is unchanged: ftp iaeand.iaea.or.at, user NDSOPEN (no password), subdirectory TRANS, files TRANS.9072 and DAN_BACK.9072. Please let us know if there are any problems with getting the files.

The updates include the changes agreed at the June NRDC meeting and modifications proposed in recent memos. The many new polarization quantities proposed by NNDC in memos CP-C/217 and 218 were not yet fully discussed and agreed at the NRDC meeting, so I originally intended to postpone their inclusion until formal approval. However, since half a year has passed now, and no comments were received, I included them all, in order to avoid further delays. If any problems arise they should be submitted before (or, at latest, at) the NRDC meeting in May.

Below I append an abbreviated list of all updates included in this transmission. 'A' means addition, 'M' means modification, 'D' means deletion. To check all details of the modifications please see the actual dictionary file. The deletions all concern the codes for relativistic heavy ion data withdrawn by NNDC (Action 42 of the NRDC meeting) and are shown only in the list below but not in the TRANS.9072 file.

DICT.003

A 1USA KNT KNT1USA Kent State University, Kent, OH
A 1USA NMS NMS1USA New Mexico State University, Las Cruces, NM
M 2BLG BRU BRU2BLG Univ.Libre de Bruxelles, Bruxelles
A
=(previously Brussels Univ.)
A 2BLG VUB VUB2BLG Vrije Univ., Bruxelles, Cyclotron Dept.

DICT.005

A Ceased publication after 1992. Last issue = Vol.12 no.4, Dec.1992

DICT.006

A ECN-C- 2NEDRCN Energy Research Foundation, Petten Reports *

A ECN-R- 2NEDRCN Energy Research Foundation, Petten Reports *

A INDC(SUD)- 3ZZZIAES Sudanese report to the I.N.D.C. *

A JAERI-C- 2JPNJAEJAERI Tokai Reports *

A JAERI-R- 2JPNJAEJAERI Tokai Reports *

DICT.007

A 94PETRBG Conf.Nucl.Spectrosc.Nucl.Struct.,St.Petersburg 1994 4RUS
A (Int.Conf.on Nucl.Spectroscopy and Nucl.Structure,
A St.Petersburg, Russia, 17-20 May 1994)
A Some papers published in IZV 60 (1), (5), (11), 1996
A 96BUDA 9.Symp.on Capture Gamma Ray Spect., Budapest, 1996 3HUN
A (9.Int.Symp.on Capture Gamma Ray Spectroscopy and
A Related Topics, Budapest, 8 - 12 October 1996)
A 96DENTON Conf.on Appl.of Accel.in Res.and Ind.,Denton,USA,1996 1USA
A (14.Int.Conf.on the Application of Accelerators in
A Research and Industry, Denton, Texas, USA,
A 6 - 9 Nov. 1996)
A 96NOTRED Conf.on Nuclei in the Cosmos IV, Notre Dame, 1996 1USA
A (Conf. on Nuclei in the Cosmos IV, Notre Dame,
A Indiana, USA, June 1996)
A 96SAROV Worksh.Exact Meas.in Nucl.Spect., Sarov, Russia 1996 4RUS
A (11. Workshop on Exact Measurements in Nuclear
A Spectroscopy, Sarov (Arzamas-16), Russia,
A 2 - 6 Sept. 1996)

DICT.018

M ESTRG Electron storage ring

DICT.019

M HARD Hardened
M KINDT Kinematically determined

DICT.021

M RINGR Ring ratio method
M STATD Statistically determined

DICT.023

M UNFLD Unfolding procedure

DICT.024

D MSS-TK 82E100000E/C2H Transverse mass - rest mass of outgoing particle
D RAP 7 E100000NO HRapidity
D Function of outgoing energy+Mom(parallel)/
D Energy-Mom(parallel)/
D RAP-ERR 7 E910000NO HRapidity uncertainty

D RAP-MAX 7 E3000000NO HUpper limit of rapidity
D RAP-MIN 7 E2000000NO HLower limit of rapidity
D RAP-PS 7 E1000000NO HPseudo rapidity
D Function of outgoing Mom+Mom(parallel)/
D Mom-Mom(parallel)/
A WVE-NM 7 G00010001/L Wave Number

DICT.025

A 1/FM per Fermi 1/L 1.E+15L
D 1/GEV2 per GeV-squared 1/E2 1.E-18E
D A*GEV/C Atomic number * GeV/veloc.of light E/C Z
A B*MEV Barns * MeV B*E 1.E+6Z
D GEV/C2 GeV per Velocity of Light squared E/C2 1.E+18E
D MB*C3/GEV2 mb * vel.of light-cubed/GeV-squaredBC/M Z
A KBQ/MUAHR Kilo-Becquerel/micro-Ampere-hour TTY 2.702703E-5TT
A MBQ/MUAHR Mega-Becquerel/micro-Ampere-hour TTY 2.702703E-2TT

DICT.031

D CEN Central
D (For relativistic heavy ion data)
A LON 48Longitudinal spins
D PER Peripheral
D (For relativistic heavy ion data)
A TRS 49Transverse spins

DICT.032

M CRL 32Correlation
D DMT Differential with resp.to sec.particle transverse mass RHI
D DR Differential with respect to rapidity RHI
D ISP Inverse slope parameter RHI

DICT.034

D 2MT times 2pi * transverse secondary particle mass
D for relativistic heavy ion data
D 2PT times 2pi * transverse secondary particle momentum
D for relativistic heavy ion data
M AYY 33 Tensor analyz.power,inc.proj.spin normal to scatt.plane
M Tensor analyzing power, incident projectile spin
A AZZ 32 Tensor analyz.power,inc.proj.spin parall.to scatt.plane
A Tensor analyzing power, incident projectile spin
A CLL 33 Spin corr.fct.,target and beam spins parallel to beam
A *Spin correlation function, target and beam spins
A parallel to beam direction in scattering plane
A CLS 33 Spin corr.fct.,beam spin perp.,target spin parall.beam
A *Spin correlation function, beam spin parallel, target
A spin perpendicul. to beam direction in scattering plane
A CNN 33 Spin corr.fct.,target and beam spins normal scatt.plane

A *Spin correlation function, target and beam spins
 A normal to scattering plane
 A CSL 33 Spin corr.fct.,target and beam spins perpend.to beam
 A *Spin correlation function, beam spin perpendicular,
 A target spin parallel to beam direction in scatt. plane
 A CSS 33 Spin corr.fct.,target and beam spins perpend.to beam
 A *Spin correlation function, target and beam spins
 A perpendicular to beam direction in scattering plane
 A DSP 36 Spins parallel minus spins antiparallel
 A IPA 47 integrated over partial angular range
 A KLL 33 Spin transf.param.,target+beam spins parall.to beam
 A *Spin transfer parameter, target and beam spins
 A parallel to beam direction in scattering plane
 A KLS 33 Spin trsf.param.,beam sp.parall.,target sp.perp.to beam
 A *Spin transfer parameter, beam spin parallel,
 A target spin perpend.to beam direction in scatt. plane
 A KNN 33 Spin transf.param.,target+beam spins normal scatt.pl.
 A *Spin transfer parameter, target and beam spins
 A normal to scattering plane
 A KSL 33 Spin trsf.param.,beam sp.perp.,target sp.parall.to beam
 A *Spin transfer parameter, beam spin perpendicular,
 A target spin parallel to beam direction in scatt. plane
 A KSS 33 Spin transf.param.,target+beam spins perpend.to beam
 A *Spin transfer parameter, target and beam spins
 A perpendicular to beam direction in scattering plane
 A SFC 48 S-factor

DICT.036

M BRA = bremsstrahlung spectrum average (for PhotoND)
 A BRS = average over part of bremsstrahlung spectrum
 D CEN,SPC/DMT/DR,,2MT SP Double-dif.sp.d/dm(trs)/dR*1/(2pi*trs.mass,cen.)
 D (Double-diff. spectrum d/d(transverse mass)/
 D d(rapidity)*1/(2pi*transverse mass),central)
 D CEN,SPC/DR SP Spectrum as a function of rapidity, central
 A ,DA,,IPA CS+ B Diff.cs integrated over partial angular range
 D ,DMT/DR,,2MT SP Double-diff.cs d/dm(trns)/dR*1/(2pi*transv.mass)
 D (Double-diff.cross section d/d(transv.mass)/
 D d(rapidity) * 1/(2pi*transverse mass))
 M ,POL/DA,,AYY POD NO Tensor anal.power,inc.proj.spin normal scatt.pl.
 M (Tensor analyzing power, incident projectile
 M spin normal to scattering plane)
 A ,POL/DA,,AZZ POD NO Tensor anal.power,inc.proj.spin parall.scatt.pl.
 A (Tensor analyzing power, incident projectile
 A spin normal to scattering plane)
 A ,POL/DA,,CLL PO NO Spin corr.fct.,target+beam spins parall.to beam
 A (Spin correlation function, target and beam
 A spins parallel to beam direction in
 A scattering plane)
 A ,POL/DA,,CLS PO NO Spin corr.fct.,beam parall.,target perp.to beam
 A (Spin correlation function, beam spin
 A parallel, target spin perpendicular
 A to beam direction in scattering plane)
 A ,POL/DA,,CNN PO NO Spin corr.fct.,target+beam spns normal scatt.pln

A	(Spin correlation function, target and
A	beam spins normal to scattering plane)
A ,POL/DA,,CSL	PO NO Spin corr.fct.,beam sp.perp.,targ.sp.parall.beam
A	(Spin correlation function, beam spin
A	perpendicular, target spin parallel
A	to beam direction in scattering plane)
A ,POL/DA,,CSS	PO NO Spin corr.fct.,target+beam spins perpend.to beam
A	(Spin correlation function, target
A	and beam spins perpendicular
A	to beam direction in scattering plane)
A ,POL/DA,,KLL	PO NO Spin trsf.parm.,target+beam spns parall.to beam
A	(Spin transfer parameter, target and
A	beam spins parallel to beam direction
A	in scattering plane)
A ,POL/DA,,KLS	PO NO Spin trsf.prm.,beam sp.parall.,targ.sp.perp.beam
A	(Spin transfer parameter, beam spin
A	parallel, target spin perpendicular to beam
A	direction in scattering plane)
A ,POL/DA,,KNN	PO NO Spin trsf.parm.,target+beam spns normal scat.pl.
A	(Spin transfer parameter, target and
A	beam spins normal to scattering plane)
A ,POL/DA,,KSL	PO NO Spin trsf.prm.,beam sp.perp.,targ.sp.parall.beam
A	(Spin transfer parameter, beam spin
A	perpendicular, target spin parallel to beam
A	direction in scattering plane)
A ,POL/DA,,KSS	PO NO Spin trsf.parm.,target+beam spns perpend.to beam
A	(Spin transfer parameter, target and
A	beam spins perpendicular to beam direction
A	in scattering plane)
A ,POL/DA,P,ANA	POD NO Analyzing power for protons
A ,SGV,,SFC	RRS B*E S-factor for reaction rate
A ,SIG,,DSP	CS+ B Cs for spins antiparall.minus cs f.spins parall.
A ,SIG,,SFC	CS+ B*E S-factor for cross section
M ,WID/RED,,RMT	RP TBRE.R-matrix reduced resonance width
M IND,FY/CRL	FY FY Independent yield of correlated fragment pairs
A IND,SIG,G	CS B Independent gamma prod.cs
A	(Independent gamma production
A	cross section)
A IND/UND,SIG,G	CS B Independent gamma prod.cs, undefined reaction
A	(Independent gamma production cross section,
A	without defined reaction channel, outgoing
A	particles represent only sum
A	of emitted nucleons.)
A	===Not to be used with process codes 'X','F'.
A	So far only used for charged particle data.
A LON,SIG,,DSP	CS+ B Cs diff.(longit.spins, antiparallel - parallel)
A PAR,AKE,G	E E Average gamma energy for specific group of g's
A PAR,DA,HE3	DAP DA Partial angular distribution of He-3 particles
A PAR,POL/DA,,AYY	POD NO Partl.tensor anal.power,spins normal scatt.pl.
A	(Partial tensor analyzing power,
A	spins normal to scattering plane)
A PAR,POL/DA,,AZZ	POD NO Partl.tensor anal.power,spins parallel to beam
A	(Partial tensor analyzing power,
A	spins parallel to beam direction)
D PAR/CEN,ISP	SP Inverse slope as a fct.of rapidity, central

D PAR,PER,ISP	SP	Inverse slope as a fct.of rapidity, peripheral
D PER,SPC/DMT/DR,,2MT	SP	Double-dif.sp.d/dm(trs)/dR*1/(2pi*trs.mass.per.)
D		(Double-diff. spectrum d/d(transverse mass)/
D		d(rapidity)*1/(2pi*transv.mass),peripheral)
D PER,SPC/DR	SP	Spectrum as a function of rapidity, peripheral
A PR,DA,N,RSD	DA NO	Ang. distrib. prompt fiss. neutrons rel.90 deg.
A PRE,FY/CRL	FY FY	Primary fiss.prod.yield of correl.fragment pairs
A		(Primary fission-product yield
A		of correlated fragment pairs)
A SEQ,DA	DA DA	Diff.cross section for spec. reaction seq.
A		(Diff.cs for partial reaction specified by
A		sequence of outgoing particles)
A SEQ,DA/DE	DA DA	Double-diff.cs for spec. reaction seq.
A		(Double-diff.cs for partial reaction
A		specif. by sequence of outgoing particles)
A TRS,SIG,,DSP	CS B	Cs diff.(transv.spins, antiparallel - parallel)

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