Scherbaum Andrea

From: Otto Schwerer, IAEA Nuclear Dat
To: Scherbaum Andrea; DUNFORD; MCLANE; TUBBS; KONIECZNY; MANOKHIN; OLGA; CHUKREEV; CBETA; VARLAMOV; CHIBA; KATO; TENDOW; TONG; TARKANYI; HASEGAWA
Subject: No Subject
Date: Friday, January 10, 1997 5:37PM

Memo CP-D/274
= = = = = = = = = = = = = =

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The deletions all concern the codes for relativistic heavy ion data withdrawn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.

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DICT.003

A 1USAKNT   KNT1USAKent State University, Kent, OH
A 1USANMS   NMS1USANew Mexico State University, Las Cruces, NM
M 2BLGBRU   BRU2BLGUniv.Libre de Bruxelles, Bruxelles
A   = (previously Brussels Univ.)
A 2BLGVUB   VUB2BLGVrije Univ., Bruxelles, Cyclotron Dept.

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DICT.005

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

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DICT.006

A ECN-C-   2NEDRCNEnergy Research Foundation,Petten Reports   *
A ECN-R-   2NEDRCNEnergy Research Foundation,Petten Reports   *
A INDC(SUD)- 3ZZZIAESudanese report to the I.N.D.C.   *
A JAERI-C-   2JPNJAEJAERI Tokai Reports   *
A JAERI-R-   2JPNJAEJAERI Tokai Reports   *

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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,19961USA
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)

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DICT.018

M ESTRG   Electron storage ring

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DICT.019

M HARD   Hardened
M KINDT   Kinematically determined

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DICT.021

M RINGR   Ring ratio method
M STATD   Statistically determined

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DICT.023

M UNFLD   Unfolding procedure

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DICT.024

D MSS-TK   82E1000000E/C2HTransverse mass - rest mass of outgoing particle
D RAP   7 E1000000NO HRapidity
D   Function of outgoing energy + Mom(parallel)/
D   Energy-Mom(parallel)/
D RAP-ERR   7 E9100000NO 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

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DICT.025

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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
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DICT.031

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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
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DICT.032

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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
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DICT.034

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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
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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 scatteringg plane
A SFC          48   S-factor
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DICT.036

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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.
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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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