Data Source Indication under Keyword STATUS

(N. Otsuka and S. Dunaeva, 2021-03-06, Memo CP-D/1010;
O. Schwerer, 2021-03-21, Memo CP-D/0490)

Memo CP-D/1010

The data source information (e.g., the number of the article table or figure where the compiled data are presented) is routinely used when the compiled data set is compared with the source article by the centres and users. We would like to ask the compilers to provide

1. the data source information under STATUS.
2. the data source information not in the common subentry (001) but in the data subentries (002, 003, …) when the data are taken from several tables or figures.
3. the reference (e.g., journal name, volume, page and year) as a part of the data source information.

Regarding the journal name typed under STATUS, we would like to ask the compilers to consider use of a typical abbreviation (*e.g.,* "Z. Phys" for "Zeitschrift für Physik"). Abbreviations defined by ISO4 are commonly used, and their list is appended to this memo.

Questions:

1. Do we recommend compilers to describe the reference (in addition to the figure/table number) when the entry has only one article under REFERENCE?
2. Do we want to treat the reference under STATUS as coded information, e.g., (CURVE,J,ARI,30,85,1979)?

Example 1:
STATUS of 001 must be deleted. The figure number under REACTION must be moved under STATUS of 002.

```
ENTRY            A0185   20120120
SUBENT        A0185001   20120120
BIB                 17         32
TITLE      Production of 201Tl and 203Pb Via Proton Induced
           Nuclear Reactions on Natural Thallium.
…
~~STATUS      (CURVE).By CAJAD.fig.1-5~~
…
SUBENT        A0185002   20110825
BIB                  4          7
REACTION   (81-TL-205(P,2N)82-PB-204-M,,SIG)   ~~fig.1a~~
…
STATUS     (CURVE).Fig.1a of Appl.Radiat.Isot.30(1979)85
ENDBIB               7
…
```

Example 2:
STATUS of 001 must be deleted. "(STATUS) Table 2" must be added under STATUS of 002.

```
ENTRY            M0821   20110622
SUBENT        M0821001   20110622
BIB                 12         31
TITLE      The photoresponse of stable N = 82  nuclei  below  10
            MeV.
…
STATUS     (TABLE) Data from Tables 2 - 5 were compiled  at  the
            Russia MSU SINP CDFE by V.Varlamov.
…
SUBENT        M0821002   20110622
BIB                 2          5
REACTION  1(56-BA-138(G,0),,EN) Excitation energy Ex.
          2((56-BA-138(G,EL),,WID,,SQ)/(56-BA-138(G,TOT),,WID))
…
STATUS     (TABLE) Table 2 of Nucl.Phys.A 79(2006)1
ENDBIB              5
...
```

Appendix

List of Abbreviations for Selected Journals (ISO4)

https://nds.iaea.org/nrdc/alloc/jour_lst.html

Code	Volumes	Abbreviation (ISO4)	Full Title
AAA		Astron.Astrophys.	Astronomy & Astrophysics
ACA		Anal.Chim.Acta	Analytica Chimica Acta
AC		Anal.Chem.	Analytical Chemistry
ACR		Acta Crystallogr.A	Acta Crystallographica
ACS		J.Am.Chem.Soc.	Journal of the American Chemical Society
ADP		Ann.Phys.(Berl.)	Annalen der Physik
AE/T		At.Energy	Atomic Energy
AIP		AIP Conf.Proc.	AIP Conference Proceedings
AJ		Astrophys.J.	Astrophysical Journal
AND		At.Data Nucl.Data Tables	Atomic Data and Nuclear Data Tables
ANE	1	Ann.Nucl.Sci.Eng.	Annals of Nuclear Science and Engineering
ANE	2-	Ann.Nucl.Energy	Annals of Nuclera Energy
AP		Ann.Phys.(N.Y.)	Annals of Physics
APH		Ann.Phys.(Paris)	Annales de Physique
APP/A		Acta Phys.Pol.A	Acta Physica Polonica A
APP/B		Acta Phys.Pol.B	Acta Physica Polonica B
APPL/B		Appl.Phys.B	Applied Physics B
ARI	1- 36	Int.J.Appl.Radiat.Isot.	International Journal of Applied Radiation and Isotopes
ARI	37- 43	Int.J.Radiat.Appl.Instrum.A	International Journal of Radiation Applications and Instrumentation A
ARI	44-	Appl.Radiat.Isot.	Applied Radiation and Isotopes
ASI/OE		Acta Phys.Sin.(Overseas Ed.)	Acta Physica Sinica (Overseas Edition)
ASP		Astrophys.Space Sci.	Astrophysics and Space Science
AUJ		Aust.J.Phys.	Australian Journal of Physics
BAS		Bull.Russ.Acad.Sci.:Phys.	Bulletin of the Russian Academy of Sciences: Physics
CJC		Can.J.Chem.	Canadian Journal of Chemistry
CJP		Can.J.Phys.	Canadian Journal of Physics
CJR/A		Can.J.Res.A	Canadian Journal of Research A
CJR/B		Can.J.Res.B	Canadian Journal of Research B

CPC	Comput.Phys.Commun.	Computer Physics Communications
CPH/C	Chin.Phys.C	Chinese Physics C
CPL	Chin.Phys.Lett.	Chinese Physics Letters
CZJ	Czechoslov.J.Phys.	Czechoslovak Journal of Physics
CZJ/A	Czechoslov.J.Phys.A	Czechoslovak Journal of Physics A
CZJ/B	Czechoslov.J.Phys.B	Czechoslovak Journal of Physics B
ENM	Eur.J.Nucl.Med.Mol.Imaging	European Journal of Nuclear Medicine and Molecular Imaging
EPJ/A	Eur.Phys.J.A	European Physical Journal A
EPJ/C	Eur.Phys.J.C	European Physical Journal C
EPJ/CS	EPJ Web Conf.	EPJ Web of Conferences
EPJ/D	Eur.Phys.J.D	European Physical Journal D
EPJ/P	Eur.Phys.J.Plus	European Physical Journal Plus
EPL	Earth Planet.Sci.Lett.	Earth and Planetary Science Letters
FBS	Few Body Syst.	Few-Body Systems
FED	Fusion Eng.Des.	Fusion Engineering and Design
GCA	Geochim.Cosmochim.Acta	Geochimica et Cosmochimica Acta
IET	Instrum.Exp.Tech.	Instruments and Experimental Techniques
IMP/E	Int.J.Mod.Phys.E	International Journal of Modern Physics E
INC	Inorg.Nucl.Chem.Lett.	Inorganic and Nuclear Chemistry Letters
IP	Isot.Environ.Health Stud.	Isotopes in Environmental and Health Studies
IRE	IEEE Trans.Nucl.Sci.	IEEE Transactions on Nuclear Science
JAC	J.Appl.Crystallogr.	Journal of Applied Crystallography
JALC	J.Alloys Compd.	Journal of Alloys and Compounds
JAP	J.Appl.Phys.	Journal of Applied Physics
JCP	J.Chem.Phys.	Journal of Chemical Physics
JEL	JETP Lett.	JETP Letters
JET	J.Exp.Theor.Phys.	Journal of Experimental and Theoretical Physics
JFI	J.Franklin Inst.	Journal of the Franklin Institute
JGR	J.Geophys.Res.	Journal of Geophysical Research
JIN	J.Inorg.Nucl.Chem.	Journal of Inorganic and Nuclear Chemistry
JLCR	J.Label.Compd.Radiopharm.	Journal of Labelled Compounds and Radiopharamaceuticals
JMM	J.Magn.Magn.Mater.	Journal of Magnetism and Magnetic Materials
JMS	Int.J.Mass Spectrom.Ion Phys.	International Journal of Mass Spectrometry and Ion Physics
JNC	J.Non-Cryst.Solids	Journal of Non-Crystalline Solids
JNE	J.Nucl.Energy	Journal of Nuclear Energy
JNE/A	J.Nucl.Energy A	Journal of Nuclear Energy A
JNE/AB	J.Nucl.Energy A/B	Journal of Nuclear Energy A/B
JNM	J.Nucl.Mater.	Journal of Nuclear Materials
JP/A	J.Phys.A	Journal of Physics A
JP/CM	J.Phys.Condens.Matter	Journal of Physics: Condensed Matter
JP/G	J.Phys.G	Journal of Physics G
JP/CS	J.Phys.Conf.Ser.	Journal of Physics: Conference Series
JPJ	J.Phys.Soc.Jpn.	Journal of the Physical Society of Japan
JPR	J.Phys.	Journal de Physique
JPR/A	J.Phys. - Appl.	Journal de Physique - Appliquee
JPR/C	J.Phys. - Colloq.	Journal de Physique - Colloque
JPR/L	J.Phys. - Lett.	Journal de Physique - Lettres
JRC	J.Radioanal.Chem.	Journal of Radioanalytical Chemistry
JRN	J.Radioanal.Nucl.Chem.	Journal of Radioanalytical and Nuclear Chemistry

JRN/L		J.Radioanal.Nucl.Chem.Lett.	Journal of Radioanalytical and Nuclear Chemistry Letters
KPS		J.Korean.Phys.Soc.	Journal of the Korean Physical Society
MDLC		Mendeleev Commun.	Mendeleev Communications
MED		Med.Phys.	Medical Physics
NAT		Nature	Nature
ND/A		Nucl.Data Sheets A	Nuclear Data Sheets A
ND/B		Nucl.Data Sheets B	Nuclear Data Sheets B
NDS		Nucl.Data Sheets	Nuclear Data Sheets
NIM	1-184	Nucl.Instrum.Method	Nuclear Instruments and Methods
NIM	185-	Nucl.Instrum.Method Phys.Res.	Nuclear Instruments and Methods in Physics Research
NIM/A		Nucl.Instrum.Method Phys.Res.A	Nuclear Instruments and Methods in Physics Research A
NIM/B		Nucl.Instrum.Method Phys.Res.B	Nuclear Instruments and Methods in Physics Research B
NP		Nucl.Phys.	Nuclear Physics
NP/A		Nucl.Phys.A	Nuclear Physics A
NP/B		Nucl.Phys.B	Nuclear Physics B
NSE		Nucl.Sci.Eng.	Nuclear Science and Engineering
NST		J.Nucl.Sci.Technol.	Journal of Nuclear Science and Technology
NT		Nucl.Technol.	Nuclear Technology
PHY		Physica	Physica
PL		Phys.Lett.	Physics Letters
PL/A		Phys.Lett.A	Physics Letters A
PL/B		Phys.Lett.B	Physics Letters B
PL/C		Phys.Lett.C	Physics Letters C
PAN		Phys.At.Nucl.	Physics of Atomic Nuclei
PCS		J.Phys.Chem.Solids	Journal of Physics and Chemistry of Solids
PM		Philos.Mag.	Philosophical Magazine
PMB		Phys.Med.Biol.	Physics in Medicine and Biology
PNE		Prog.Nucl.Energy	Progress in Nuclear Energy
PNP		Prog.Part.Nucl.Phys.	Progress in Particle and Nuclear Physics
PPN		Phys.Part.Nucl.	Physics of Particles and Nuclei
PPN/L		Phys.Part.Nucl.Lett.	Physics of Particles and Nuclei Letters
PPS		Proc.Phys.Soc.	Proceedings of the Physical Society
PPS/A		Proc.Phys.Soc.A	Proceedings of the Physical Society A
PR		Phys.Rev.	Physical Review
PR/A		Phys.Rev.A	Physical Review A
PR/B		Phys.Rev.B	Physical Review B
PR/C		Phys.Rev.C	Physical Review C
PR/D		Phys.Rev.D	Physical Review D
PR/E		Phys.Rev.E	Physical Review E
PRL		Phys.Rev.Lett.	Physical Review Letters
PRM		Pramana	Pramana
PRN		Phys.Rep.	Physics Reports
PRS/A		Proc.R.Soc.Lond.A	Proceedings of the Royal Society A
PS		Phys.Scr.	Physica Scripta
PSPS		Planet.Space Sci.	Planetary and Space Science
PSS/A		Phys.Status Solidi A	Physica Status Solidi A
PTP		Prog.Theor.Phys.	Progress of Theoretical Physics
PTEP		Prog.Theor.Exp.Phys.	Progress of Theoretical and Experimental Physics
PTP/S		Prog.Theor.Phys.Suppl.	Progress of Theoretical Physics Supplements

RBF		Braz.J.Phys.	Brazilian Journal of Physics
RCA		Radiochim.Acta	Radiochimica Acta
RE		Radiat.Eff.	Radiation Effects
RMP		Rev.Mod.Phys.	Review of Modern Physics
RPC	08-Jan	Int.J.Radiat.Phys.Chem.	International Journal for Radiation Physics and Chemistry
RPC	9-26	Radiat.Phys.Chem.	Radiation Physics and Chemistry
RPC	27- 40	Int.J.Radiat.Appl.Instrum.C	International Journal of Radiation Applications and Instrumentation C
RPC	41-	Radiat.Phys.Chem.	Radiation Physics and Chemistry
RPD		Radiat.Prot.Dosim.	Radiation Protection Dosimetry
RPP		g.Phys. Report	on Progress in Physics https:
RR		Radiat.Res.	Radiation Research
RSI		Rev.Sci.Instrum.	Review of Scientific Instruments
RM		Radiat.Meas.	Radiation Measurements
SIA		Surf.Interface Anal.	Surface and Interface Analysis
SJA	1-13	Sov.J.At.Energy	Soviet Journal of Atomic Energy
SJA	14-	Sov.At.Energy	Soviet Atomic Energy
SPU		Sov.Phys.-Uspekhi	Soviet Physics-Uspekhi
YFE	16-	Nucl.Phys.At.Energy	Nuclear Physics and Atomic Energy (Yaderna Fizika ta Energetika)
ZN/A		Naturforsch.A	Zeitschrift fuer Naturforschung A
ZP		Z.Phys.	Zeitschrift fuer Physik
ZP/A		Z.Phys.A	Zeitschrift fuer Physik A
ZP/B		Z.Phys.B	Zeitschrift fuer Physik B

Memo CP-C/0490

The first part of memo CP-D/1010 (items 1, 2, 3) is, in our view, a clarification of what has been good compilation practice already and does not introduce a new rule. We think that minor deviations from this recommended practice (such as giving the source information in subentry 1 even when several tables are involved, or using the dictionary 5 code instead of the ISO4 abbreviation for a journal) shall not constitute an item for the "feedback list" (even not for the "not urgent" (green) category). Only when the source information is missing altogether or clearly incorrect, this would be an error needing correction; other improvements of the STATUS information can be made whenever the entry is retransmitted for another (important) reason.

On the second part of CP-D/1010 ("Questions"):

1. *Do we recommend compilers to describe the reference (in addition to the figure/table number) when the entry has only one article under REFERENCE?*

We think this should be a *recommendation* for new entries only. ("Recommendation" means that the compiler decides whether or not to follow it; if he does not follow it, this need not always be mentioned in the error reports on the prelim files exchanged between centres). The compiler may take the "risk" of having to update the STATUS information in all subentries when a second reference should be added later. (This could still be more efficient than to make this change in many entries where a second reference is never added.)

2. *Do we want to treat the reference under STATUS as coded information, e.g., (CURVE,J,ARI,30,85,1979)?*

We are skeptical about this option because:
- in all those cases where only one reference is given, this would be just a duplication of the coded information given under REFERENCE, and could be more confusing than helpful for users
- anyway the details (table / figure / page number) will still have to be added in free text, so the coded part of the STATUS text will not have the complete information. In the above example, the coded page number is 85 (beginning of the article), but the data are perhaps on page 89, which would be added in free text. (Or should, in this example, the page with the data – 89 – be coded instead of the beginning of the article?)
- In summary, we believe that this option is of limited benefit for the users and may perhaps not justify the additional complications it implies for the EXFOR system.