Memo CP-A/172

Date: 18 May 2011
To: Distribution
From: S.Babykina

Subject: **Comments of ZCHEX**
Reference: **Memo 4C-4/189**

I have my comments for ZCHEX

1. Entries with new heading codes (O1851.006 in PRELIM.O044)

Because of two new codes **EN-RES-NM** and **EN-RES-DN** in COMMON section, ZCHEX gave the following message:

```
MAJOR ERRORS FOUND *** must be corrected before checking will continue
```

and checking was terminated without further checking. This is inconvenient for compilers who wish to check trans files including new heading codes. In order to remove mistakes from trans files as much as possible, compilers should be able to continue checking even if new heading codes are used the trans file.

2. Relative energy in REACTION and EN-SEC (O1853.002 in PRELIM.O044)

Angular distribution of centre-of-mass of two outgoing proton (i.e., outgoing angle of ^{2}He) is coded as

```
(1-H-2(P,N)2-HE-2,PAR,DA,P+P)
```

with relative energy between two protons under the heading E-RL which is defined as

```
EN-SEC      (E-RL,P+P).Relative energy between two protons
```

. Though the quantity code `PAR,DA,*+*` is defined in dictionary 236, above coding (REACTION SF7 and EN-SEC) is not accepted by ZCHEX:

```
  **   Illegal code in                      field  7
  **   End of code string not found
      EN-SEC      (E-RL,P+P).Relative energy between two protons
                      ^^^
```

Distribution:
blokhin@ippe.ru
chiba@earth.sgu.ac.jp
emmeric.dupont@oecd.org
ganesan@barc.gov.in
katakura.junichi@jaea.go.jp
kato@nucl.sci.hokudai.ac.jp
kirarlyb@atomki.hu
manokhin@ippe.ru
mmarina@ippe.ru
mwherman@bnl.gov
nklimova@kinr.kiev.ua
n.otsuka@iaea.org
oblozinsky@bnl.gov
ogritzay@kinr.kiev.ua
otto.schwerer@aon.at
samaev@obninsk.ru
s.babykina@polyn.kiae.su
 stakacs@atomki.hu
stanislav.hlavac@savba.sk
taova@exped.vniief.ru
tarkanyi@atomki.hu
varlamov@depni.sinp.msu.ru
vmclane@optonline.net
v.semkova@iaea.org
v.zerkin@iaea.org
yolee@kaeri.re.kr