

JANIS Import Log

N. Soppera
OECD NEA Data Bank

Checking EXFOR format

- Regularly we produce a log of all format issues found by JANIS in the EXFOR master file
- Similar to using JANIS TRANS Checker on the whole EXFOR database
- Issues are reported to NRDC:
 - WP2008-18
 - WP2009-04
 - As feedback for the EXFOR corrections list

New checks developed

- Coherence between N1 value of COMMON and DATA record and number of columns found
- Coherence between the number of columns headings and the columns found
- Authors names coding rule in REL-REF and MONIT-REF keywords
- Reaction SF4 rules

« Ignored fields »

- Mismatch between
 - the announced number of data fields (N1 value of COMMON and DATA records)
 - and the number of Data Heading found
- 3 issues in EXFOR-2011-03-23

```

21352.003
DATA                5                4
ELEMENT            MASS            ISOMER            DATA            DATA-ERR            DECAY-FLAG
NO-DIM            NO-DIM            NO-DIM            PC/FIS            PC/FIS
61.                146.                4.5000E-10 4.5000E-10 3.
61.                148.                2.            6.7000E-09 6.000E-10
6.1000E+01 1.4800E+02 1.0000E+00 2.8000E-09 7.0000E-10 2.0000E+00
6.1000E+01 1.4800E+02 9.5000E-09 9.0000E-10
ENDDATA                6
  
```

« Ignored field(s) »

- Mismatch between
 - the number of Data Heading
 - and the number of data fields founds
- 52 potential issues in EXFOR-2011-03-23

23045.005		
DATA		2 32
E	DATA	
MEV	MB/SR/MEV	
22.532	0.61956	0.98249E-01
26.922	0.74834	0.12903
32.281	0.79667	0.10904
37.141	0.67302	0.12763
42.013	0.73175	0.10016
...		

Author field of REL-REF and MONIT-REF

- Previously only AUTHOR keywords were checked
- in EXFOR-2011-03-23:
 - 11 issues in REL-REF
 - 3 issues in MONIT-REF

REACTION SF4 values

- Checks performed on REACTION keyword have been updated to reflect the latest changes in « SF4 » coding
- 1464 warnings in EXFOR-2011-03-23

#	Message
77	SFA empty?
18	SF4 is empty for production/emission quantity
472	SF4 is empty for scattering process EL
373	SF4 is empty for scattering process INL
10	SF4 is empty for scattering process SCT
238	SF4 is empty for scattering process THS
4	SF4 is not equal to SF1 (except isomer) for scattering process EL
114	SF4 is not equal to SF1 (except isomer) for scattering process INL
3	SF4 is not equal to SF1 (except isomer) for scattering process SCT
1	SF4 should be empty for nuclear quantities
114	SF4 should be empty for reactions measured for a natural or compound target except for a few special rules
4	SF4 should be empty for reactions that are implicit sums (ABS)
4	SF4 should be empty for reactions that are implicit sums (NON)
1	SF4 should be empty for reactions that are implicit sums (TOT)
31	SF4 should be empty for resonance parameters
1464	Total
