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MEMO CP-N/35

DATE: 5 Oct 2005
TO: See distribution list below
FROM: H. Henriksson
SUBJECT: CINDA conversion details, area 2

Since the last NRDC meeting, the NEA Data Bank has verified the CINDA conversion algorithms and updated them according to the 2004 meeting and to the technical meeting in April 2005. Below you will find some results summarising the number of CINDA records that could be converted and the number of entries that were converted from the EXFOR data base.

The overall number of CINDA records in the new format will be

- 67 039 from old CINDA
- 18 824 additional records from EXFOR neutron data
- 65 533 from EXFOR charged particle data

This gives a total of 151 396 CINDA records for Area 2. The detailed logs from the Area 2 conversion are presented in the Appendix 1 and Appendix 2. The number of records is slightly different from the previous numbers from NDS in Vienna on Area 2 of 157 628 records. This can be explained by the re-grouping or not of EXFOR subentries or other differences depending on which articles are recognised in EXFOR. We would like to understand this difference better by performing some comparisons in the near future.

The NEA Area 2 data is available on
<http://www.nea.fr/html/dbdata/data/X4/>

The file is called "02exchange2001.txt" (20 Mb)

Best regards,
Hans Henriksson

Appendix 1

Conversion log of the Area 2 Old CINDA data base at NEA/DB with the new imported data from EXFOR.

Old CINDA conversion

SUMMARY (Number of Blocks):

No EXFOR link. Ambiguous CINDA code: 10352

No EXFOR link. CINDA code match: 21747

EXFOR link. Ambiguous CINDA code: 5237*

EXFOR link. CINDA code match: 6460

Total: 43796

Inserted: 38559

SUMMARY (Number of Records):

No EXFOR link. Ambiguous CINDA code: 14731

No EXFOR link. CINDA code match: 30837

EXFOR link. Ambiguous CINDA code: 16241*

EXFOR link. CINDA code match: 21471

Total: 83280

Inserted: 67039

*CINDA REFINE

SUMMARY (Number of Blocks):

No Q match in EXFOR: 600

Found Q in EXFOR: 4427

Found possible Q: 210

Total: 5237

Inserted: 5876

SUMMARY (Number of Records):

No Q match in EXFOR: 1681

Found Q in EXFOR: 14025

Found possible Q: 535

Total: 16241

Inserted: 18824

EXFOR to CINDA conversion:

SUMMARY:

All blocks found: 22863

Existing in CINDA: -7974

Extra reference blocks: 8115

Total inserted in CINDA: 23004

All blocks found: 45740

Existing in CINDA: 11559

Extra reference blocks: 18241

Total inserted in CINDA: 65533

CINDA EXCHANGE SUMMARY:

Records: 151396

Blocks: 59905

Appendix 2

Conversion log of old CINDA reaction quantities in the Area 2 CINDA data base at NEA/DB with the new imported data from EXFOR.

CINDACONVERT:

SUMMARY (Blocks by Q):

Q	NotX4Amb	NotX4OK	X4Amb*	X4OK
GN	300	0	4	0
ABS	0	438	0	125
SNE	0	161	0	40
NUF	0	65	0	9
POL	0	166	0	126
SNG	1232	0	215	0
NHE	99	0	59	0
CHG	0	190	0	38
ALF	0	76	0	29
DEL	0	895	0	459
DEM	43	0	12	0
POT	0	67	0	63
NNA	99	0	51	0
STF	0	653	0	297
FRS	412	0	101	0
NND	19	0	4	0
DIN	884	0	381	0
TSL	0	782	0	319
TOT	0	1396	0	949
NFY	0	837	0	254
SEL	0	712	0	356
SCT	137	0	74	0
NNP	312	0	252	0
ETA	0	61	0	20
SIN	0	606	0	157
AEM	114	0	40	0
NEG	213	0	79	0
NNT	34	0	24	0
NA	1449	0	767	0
N2N	1514	0	975	0
ND	182	0	169	0
NF	0	1424	0	327
NG	0	4704	0	1292
NEM	237	0	154	0
EVL	0	3074	0	0
PEM	116	0	71	0
RIA	0	1358	0	399
NXN	229	0	45	0
NP	1597	0	1226	0
SFG	0	57	0	7
DNG	215	0	241	0
NT	167	0	161	0
RIF	0	146	0	19
NU	0	415	0	99
RIG	0	146	0	13
GF	116	0	1	0
NX	39	0	4	0
RES	0	1323	0	692
FPB	123	0	0	0
SFN	168	0	30	0
TEM	31	0	39	0
LDL	0	1528	0	230
FPG	201	0	8	0
NUD	0	194	0	18
Total:	10282	21474	5187*	6337
Grand total	43280			

***CINDAREFINE:**

SUMMARY (Blocks by Q):

Q	NoMatch	MatchOK	MatchAmb
GN	4	0	0
ABS	0	0	0
SNE	0	0	0
NUF	0	0	0
POL	0	0	0
SNG	21	190	4
NHE	4	55	0
CHG	0	0	0
ALF	0	0	0
DEL	0	0	0
DEM	7	5	0
POT	0	0	0
NNA	6	42	3
STF	0	0	0
FRS	15	75	11
NND	1	3	0
DIN	22	342	17
TSL	0	0	0
TOT	0	0	0
NFY	0	0	0
SEL	0	0	0
SCT	3	61	10
NNP	60	130	62
ETA	0	0	0
SIN	0	0	0
AEM	10	30	0
NEG	5	67	7
NNT	2	22	0
NA	100	647	20
N2N	81	890	4
ND	45	72	52
NF	0	0	0
NG	0	0	0
NEM	11	141	2
EVL	0	0	0
PEM	10	53	8
RIA	0	0	0
NXN	1	44	0
NP	129	1093	4
SFG	0	0	0
DNG	30	209	2
NT	14	145	2
RIF	0	0	0
NU	0	0	0
RIG	0	0	0
GF	1	0	0
NX	1	3	0
RES	0	0	0
FPB	0	0	0
SFN	0	30	0
TEM	8	31	0
LDL	0	0	0
FPG	1	5	2
NUD	0	0	0

Total:592 4385 210
Grand total: 5187