Dictionary for ISSN identifiers

(N. Otsuka, 2024-12-30, Memo CP-D/1120)

I routinely use an "internal dictionary" summarizing the relationship between the ISSN (International Standard Serial Number) and EXFOR journal reference codes based on the title list provided by CrossRef (https://apps.crossref.org/titleList/). This dictionary could be added in the official dictionary transmission as Dictionary 44 if other centres would like to receive its up-to-date version.

Extraction from Trans Dictionary 44:

```
----+----1----+----2----+----3----+----4----+----5----+----6----+-
00014141   P 1V          BCS
00016705   P 1V          AHP       1   53
00018732   PE1V 14606976 AIP
...
00032700   PE1V 15206882 AC
00033804   PE1V 15213889 ADP
           The Volume number seen on the article website is
            different from the one on the article hard copy.
00034169   PE1V 12864838 APH
00034916   PE1V 1096035X AP
...
00114626   PE1V 15729486 CZJ       1   10CZJ/B    11   39
...
00443328   PS1V 09397922 ZP           271
...
```

A journal may have two ISSN identifiers for paper and electronic medias. If both exist, the ISSN identifier for paper media (P) is treated as the code, and the one for electronic media (E) is treated as an alternative ISSN.

Example:
ISSN of APH (Annales de Physique) is 00034169 (paper) and 12864838 (electronic)

A journal also may have two possible ISSN identifiers within a volume depending on the issue. In such a case, the second one is treated as a secondary (S) ISSN.

Example:
ISSN of ZP (Zeitschrift für Physik) is 00443328 (primary) and 09397922 (secondary). For Vol. 263, the primary one is seen on CrossRef for Issue 1 and 5, and the secondary one is seen for Issues 2 to 4 on CrossRef. (N.B. The secondary ISSN is originally defined for ZP/A, but some ZP issues are registered in CrossRef. with this secondary ISSN. This is probably a mistake in registration.)

Note that currently this dictionary collects ISSN identifiers necessary to find a DOI in the CrossRef database. For example, Helvetica Physica Acta (HPA) adopts DataCite as the DOI registration agency, and its ISSNs (00180238 for print, 22971971 for electronic) are not included in this dictionary.

Dictionary 44: ISSN identifier

Line	Contents	Format	Archive	Trans	CHEX
1	Code	A8	13-20	1-8	
	Media type P – paper or primary E – electronic	A1	44	12	
	Media type for alternative ISSN E – electronic S – secondary	A1	45	13	
	DOI registerer identifier 1 – CrossRef	I1	46	14	
	Range type identifier V – volume Y – year	A1	47	15	
	Alternative ISSN	A8	49-56	17-24	
	Reference code 1	A6	58-63	26-31	
	Lower boundary of range 1	A5	64-68	32-36	
	Upper boundary of range 1	A5	69-73	37-41	
	Reference code 2	A6	74-79	42-47	
	Lower boundary of range 2	A5	80-84	48-52	
	Upper boundary of range 2	A5	85-89	53-57	
	Reference code 3	A6	90-95	N/A	
	Lower boundary of range 3	A5	96-100	N/A	
	Upper boundary of range 3	A5	101-105	N/A	
	Reference code 4	A6	106-111	N/A	
	Lower boundary of range 4	A5	112-116	N/A	
	Upper boundary of range 4	A5	117-121	N/A	
2+	Comment	A55	(44-98)	(12-66)	

In this opportunity, I summarize below the dictionary numbers used in the past since it is better not to use the same dictionary number for another purpose in the future.

Dict. #		Name	Replaced by
9		Chemical compounds	Dict. 209
10	Trans	Process/parameter (Quantity SF1)	
	Archive	Standard reaction	
11	Trans	Function (Quantity SF2)	
	Archive	Forbidden reactions (old CINDA)	
12	Trans	Modifier (Quantity SF3)	
	Archive	Old CINDA quantities	
13	Trans	Particle	
	Archive	Reaction type	Dict. 213
14	Trans	Quantity (SF1-SF4)	
	Archive	Reaction dimension	
27		Nuclides	Dict. 227
28		Incident particles (REACTION SF2)	
29		Product particles (REACTION SF3)	
36		Quantities (SF5-8)	Dict. 236
41		Conversion table of quantity (Dict. 14) to REACTION formalism	
42		CINDA quantities	
124	Archive	Data headings (for plotting)	
125	Archive	Data units (for plotting)	
136	Archive	Quantities (for plotting)	