**Nuclear Data Section**

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**Memo CP-D/1120**

**Date:** 30 December 2024

**To:** Distribution

**From:** N. Otsuka

**Subject: Dictionary for ISSN identifiers**

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 typeP – paper or primaryE – electronic | A1 | 44 | 12 |  |
|  | Media type for alternative ISSNE – electronicS – secondary | A1 | 45 | 13 |  |
|  | DOI registerer identifier1 – CrossRef | I1 | 46 | 14 |  |
|  | Range type identifierV – volumeY – 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) |  |

**Distribution:**

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