

## Revisions of EXFOR Formats Manual

(N. Otsuka and N. Soppera, 2021-04-10, Memo CP-D/1011)

### Page 6.2 – Nuclide and compound symbol other than an elemental symbol

The current manual mentions the symbol S in the Z-S-A-X format is defined in Dictionary 8, but we also use particle symbols (e.g., AP for anti-proton). We propose the addition of “or particle” and deletion of “(Dictionary 8)” as follows:

#### **Coding of nuclides and compounds**

Nuclides appear in the coding of many keywords. The general code format is Z-S-A-X, where:

Z is the charge number; up to 3 digits, no leading zeros

S is the element or particle symbol; 1 or 2 characters (~~Dictionary 8~~)(\* is used for super-heavy elements that do not have element symbols)

...

Valid nuclide codes are given in Dictionary 227 (see EXFOR/CINDA Dictionary Manual).

### Page 7.11 – Trailing comma in code field of ERR-ANALYS

The current manual allows trailing comma in the coded information of ERR-ANALYS except for the correlation property field like (ERR-1,10,). To prevent it, we propose (1) addition of a sentence “The absence of any field must be indicated by including the separating comma; trailing commas are not included.” before introduction of the heading field, and also deletion of a similar sentence in the description of the correlation property field.

#### **ERR-ANALYS**

...

2. The coded information is of the form: (heading, minimum value, maximum value, correlation property) free text. The absence of any field must be indicated by including the separating comma; trailing commas are not included.

Heading Field.

...

Maximum Value Field

...

Correlation Property Field Contains one of the following correlation property flags: U: Uncorrelated F: Fully correlated P: Partially correlated C: Correlated (when information is insufficient to determine F or P) This field is optional. It may be given only when authors give the proper information in the publication. ~~If this field is not given, the trailing comma is omitted.~~

### Page 7.2 – Presence of keywords

The current manual mentions

- REACTION
- One of METHOD, FACILITY, ANALYSIS or DETECTOR

must be present in either subentry 001 or in all other subentries. We do not expect these keywords when supplemental information (e.g., a large table of resolution/response function or incident particle spectrum) is given in the subentry. We propose to add an exception like “except when SUPPL-INF is present” for these keywords. We also have to add the new keyword SUPPL-INF in this table.

<b>Keyword</b>	<b>Presence of keyword is obligatory</b>	<b>Obligatory with data heading</b>
...	...	...
Data specification REACTION  RESULT	always <u>except when SUPPL-INF is present</u> when a code exists	
...	...	...
Physics INC-SOURCE INC-SPECT SAMPLE <u>SUPPL-INF</u>		
METHOD FACILITY ANALYSIS DETECTOR	one of these is obligatory <u>except when SUPPL-INF is present</u>	
...	...	...