

Pamela

4-C-MEMO Nr. 2/2

From: H. Liskien  
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Subject: Proposals for revision of dictionaries

DETECTØR

L. H.  
J. H.

DELETE:

1. ✓ CØIN "coincidence" (not a detector)
2. ✓ RDET "ring detector" (should be entered under "geometry").

ADD:

1. ✓ SILI "silicon-lithium detector"
2. ✓ LI6SP "lithium 6 solid state spectrometer"
3. ✓ BØRSL "boron slab detector"
4. ✓ CSICR "cesium-iodide crystal"

CHANGE:

1. ✓ BUCH BUBCH
2. ✓ GSIN GSCIN
3. ✓ ØSC ØSCIN
4. ✓ HE3D HE3SP "helium-3 spectrometer"

Distribution:

A.I. Abramov  
R. Cullen  
M.D. Goldberg  
H.D. Lemmel  
A. Lorenz  
A.V. Ignatiuk  
S. Pearlstein  
V.I. Popov  
J.J. Schmidt  
All CCDN

FACILITY

LH & me.

ADD:

1. High flux reactor REACH
2. Doppler chopper CHØPD

CHANGE:

1. BOMB from "self-destructive source" to "nuclear bomb"  
(no euphemisms, please)
2. Isochronous cyclotron, code from ISØCH to CYCLI (Cf.  
CYCL for cyclotron).

L.H. & me

METHOD

We are not entirely happy with METHØD, SØURCE and DETECTØR as the best way of expressing how an experiment is done. However, it is too late to start on the philosophy again. Within these dictionaries we would like to make various alterations, chiefly in order to preserve consistency.

DELETE:

1. ✓ DIGAM direct gamma ray detector
2. ✓ HE3SP He<sup>3</sup> spectrometer
3. ✓ LSCT large scintillator tank
4. ✓ NUCEM nuclear emulsion
5. ✓ PROPC proportional counter
6. ✓ RCTEL recoil telescope
7. ✓ SDSSA scinillator detector in small solid angle

All these procedures refer to or are dependent on the detector, and we feel that the detector dictionary already takes care of these. An exception is DIGAM: the method component of this is covered by DIDET, while the gamma ray detection should be specified elsewhere.

CHANGE:

1. ✓ from TRANS "transmission" to TRNSM
2. ✓ from SPHST "spherical shell transmission" to TRNSS

The main thing about these methods is transmission: spherical shell transmission is merely a further specification of this.

3. ✓ from 4PIDT "4PI detector" to 4PIDT= "4PI detection" (we are talking about a method rather than a detector).

4. ✓ SPHM

Please improve the definition given for this sample (we do not understand what you mean).

*Handwritten scribble*

NEUTRON SOURCE

*LH & me*

ADD:

A-BE "alpha-beryllium reaction"

DELETE:

1. POLRB and POLRT. Neither of these is a source.
2. REACF, REACP and REACT should all be deleted because they specify the facility, which is covered under another heading. It will be sufficient to leave the generic term REACT "reactor" to cover these cases.

ANALYSIS

LH

We do not know the difference between minimum transmission analysis and minimum transmission method. We are willing to accept that there is one but suggest that it should be expressed more clearly.

no action

SAMPLE

L H J ne

ADD:

1. CRYST "single crystal"
2. ORIEN "oriented" (as opposed to POLAR)

CHANGE:

1. AMPHC

We suggest that you should have written "amorphous" instead of "amorphic" (Cf. rubber bible). We prefer the term "glassy structure" or something like it as being more specific.

2. (a) from COMPC "chemical composition" to COMC= "chemical composition ="  
(b) COMPI "isotopic composition" to COMI= "isotopic composition ="  
(c) from GEOM to GEOM= "geometry ="  
(d) TEMP "temperature" to TEMP= "temperature ="

All these remarks are meaningless without explanatory free text to follow. By including an = sign in the abbreviation we hope to remind compilers that they must put in some free text. As for the expanded expression, we think "chemical composition =" followed by free text is clearer than if the = sign were missing.

3. from POLAR "polarisation" to POLAR "polarised" (this is a question of grammar: we are talking about a sample).

DELETE:

COLD "cold"

This is included under "temperature =". If you want to retain this expression, you should change the meaning to "cooled", which does then tell you something new about the sample.

PRØCESS-PARAMETER

43L  
JS

ADD: (under "parameter")

SCØ spin-cut-off factor