Memo CP-D/671 (Rev.)

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Subject: **Expansion of codes Dictionary 21 (Method Codes)**

Usages of some method codes defined in Dictionary 21 are not very clear from their expansions. As a result, it is seen that sometimes one code is used for several purposes. I looked through the dictionary, and propose here addition of comments to some method codes.

Code	Expansion (Comment)
ASSOP	Associated particle (*for neutron flux determination*)
DSCAT	Double scattering (*for polarization measurement*)
HE-AC	Helium accumulation method (*for helium determination by vaporization and mass spectrometry*)
HEJET	Collection by He jet (*for reaction product transportation*)
LRASY	Left-right asymmetry (*for polarization measurement*)
MAGFR	Magnetic field rotation (*for polarized beam production*)
RINGR	Ring ratio method (*for neutron energy determination*)
SLODT	Slowing-down time (*for neutron energy determination*)

The method code of HE-AC is used in the following 5 entries:
20779, 20487, 22830, E1787 (=O0974)

20779:
        Neutron flux was measured by alphas (associated particle method).
22830:
        Emitted alpha is detected by counter telescopes.
22487, E1787(=O0974):
        Helium produced in the sample materials was collected by heating irradiated
        sample in vacuum.

Authors of EXFOR 22487 and E1787 explain their method as "helium accumulation method". Helium production compiled in EXFOR 13598 was also determined by the same method, and they call their measurement as "helium accumulation measurement". Therefore an explanation shown in the above table is proposed for the method code HE-AC. This code must be added into EXFOR 13598.

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