MEMO CP-A/77
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To: Distribution
From: F.E. Chukreev
Subject: 1. Coded information for INC-SPECT
         2. C0430 in TRANS C018

        1. INC-SPECT

        EXFOR Manual (see p.8.1.1) contains the rule:
        "Used to provide information on the characteristic and resolution of the incident-projectile beam. See also LEXFOR Incident-Projectile Energy.
        Presence is optional, except that it is required when the quantity modifiers MXW, SPA or FIS are present under REACTION (see page 6.8) See also LEXFOR Incident-Projectile Energy and Spectrum Average. No coded information"

        EXFOR Basics (see p.B.4) contains another rule:
        "Provides free text information on the characteristics and resolution of the incident-projectile beam"

        LEXFOR (see R.10)
        requests to use INC-SPECT to describe Incident-particle Energy Resolution and does not request to describe Angular Resolution.

        1.1 We know, that angular resolution and energy resolution are identical important for an experiment, because the energy of reaction products is the function of an angle.
        Therefore I would like to propose use INC-SPECT to describe angular resolution too.
        This proposal does not contradict the rule for INC-SPECT, which is included in EXFOR Basic.
        1.2 LEXFOR requests "The shape and definition of the resolution function should be given in free text under INC-SPECT". This rule can not be assumed as suitable, because computer checking for this rule is impossible.
        Today we have unique possibility to check:
  IF(('EN-RSL' is present).AND.('INC-SPECT' is absent)) THEN 'ERROR'.
        We can not check what characteristic is described in INC-SPECT!
Coded information is needed for computer checking.
        The absence of similar computer checking permits for a compiler "to forget" to give an explanation for energy and angular resolutions.
        Dr. O. Schwerer took our attention to our mistakes regarding to EN-RSL (see, for example, MEMO CP-D/261). But his remarks are equitable for another Center's compilations. (see, for example,   C0017, C0040, C0045, C0050, C0054, C0424, C0047, C0062, C0104, C0108, C0380)
        Another example: C0035 used EN-RSL, but INC-SOURCE describes EN-RSL-HW.
        1.3 We would like to propose to change the rule for INC-SPECT in EXFOR Basic:
        "INC-SPECT Provides the information on the characteristics and resolution of the incident-projectile beam.
        Coded information + free text or free text only can be used. Codes must include substring '-RSL'. These codes are found in Dictionary 24. Needed elucidation must be given in free text."
        1.4 Our proposal could be discussed at nearest Technical Meeting.

2. C0430 in TRANS C018

This ENTRY contains neutron reactions only. Besides, reaction 22-Ti-0(N,X)23-V-48 (C0430009) is impossible.

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