"Prompt" Summary of
the joint discussion on Compiling/Storage of Neutron Spectra in EXFOR

1. First Alternative: usage of REACTION string for incident spectrum

creation of the new special SubEntry with coding of the incident Spectrum as Reaction string:

REACTION   (U-238-SRC(0,0),,DE,,SPD)

which will specify Spectrum for the existing SubEntry with reaction SPA cross section coded by proper spectrum code in SF8 = MXA, EPI, FIS, FSR, BRA, SPA:

REACTION (6-C-12(N,TOT) , ,   , ,SPA

2. Second Alternative: put spectrum in INC–SPECT

INC-SOURCE (REAC) *{or (P-LI7) or (AM-BE) … }*
          free text description of facility
INC-SPECT   *{or INC-SPECT(DE,…) for searching, plotting etc. ?}*
           free text description of how spectrum was obtained
           E   Sp   *or (E, Sp, Npoints) to read by retrieving system*
           eV   1/eV
           10000. .0001
           ……   ……
           19999 .0009

   or *link to or text explaining where data could be found, e.g.:*
        - File with Spectrum if spectrum array is longer than say 50 lines
       - IRDFF-2002 research reactor Spectra database
                https://www-nds.iaea.org/irdf2002/data/irdf2002_spectra.dat:
                ISNF spectrum - *G.P.Lamaze 13153, B.M.Oliver 13752*
                Sig-Sig spectrum - *A.Fabry 20948, A.Hannan 20950 , I.Garlea 30452,* 30568
                CFRMF spectrum - *Y.Harker 10218, E.P.Lippincott 13756*
                YAYOI spectrum - *K.Kobayashi 21589, K.Kobayashi 20693*
     - ENDF or Standards for the case of Cf, U(n,f) source
     - ICSBEP https://www.oecd-nea.org/science/wpncs/icsbep/,
                e.g.. Benchmark FUND-IPPE-FR-MULT-RRR-001 for Entry A.Zvonarev 41068

3. Current status: <u>Examples of Neutron Spectra available in EXFOR</u>

Reactor facility

REAC Triga   31733   http://www-nds.iaea.org/EXFOR/31733.002

REAC Yayoi 23075   http://www-nds.iaea.org/EXFOR/23075.002

REAC Idaho 31686   http://www-nds.iaea.org/EXFOR/31686.002

Radioactive source

AM-BE   31724   http://www-nds.iaea.org/EXFOR/31724.002

Accelerator driven

P-LI7 TIT   22850   http://www-nds.iaea.org/EXFOR/22850.005

P-LI7 KFK   O1963 http://www-nds.iaea.org/EXFOR/O1963.002
(this source was used in many (n,g) SPA measurements: http://www-nds.iaea.org/EXFOR/22996.003,
           should be a link include in such Entries to O1963 ?)

D-BE9 Julich   many SPA data of S. Qaim et al. – spectra are not included