Branch codes 'DIS' and 'CON' (for γ production)
Attached: CP-C/324, 4C-4/136

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DATE: April 30, 2003
TO: Distribution
FROM: V. McLane
SUBJECT: Use of branch codes 'DIS' and 'CON'

According to the comments received from S. Maev on preliminary TRANS 1314, there seems to be a misunderstanding of the use of the branch codes DIS and CON.

My understanding is that the code DIS is to be used for a range of discrete gamma energies in the continuum region that excludes continuum gammas. It is not useful to use it when a discrete gamma energy is given, or for a gamma energy range below the continuum region. I will not agree to its use in these cases.

The branch field is used to separate different branches of a reaction. When only one of the branches is possible, no branch code is given.

The dictionary explanation should be changed to read similar to the following.

CON   For a range of continuum gammas, discrete gammas excluded.
DIS   For a range of discrete gammas, continuum gammas excluded.

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MEMO 4C-4/136

 DATE: **11 December 2002**
 TO: **Distribution**
 From: **S. Maev (alias : S. Mayev, S. Maiev)**
 Subject: **Addition of Dictionaries 36, 31**

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Following additions should be made to

Dictionary 36 (Quantities)

1.

PR,NU,LF	Number of neutrons emitted by the light fission fragment
PR,NU/DE,HF	Number of neutrons emitted by the heavy fission Fragment having an energy given in data table

Reference	ENTRY 22464, ENTRY 22660

2.

PAR/DIS,DA,G	Angular distribution for the discrete gammas of given energy
PAR/CON,DA,G	Angular distribution for the continuous gammas of given energy
DIS,SIG,G	Production Cross Section for discrete gammas
CON,SIG,G	Production Cross Section for continuous gammas

Reference	ENTRY 40496

Consequently, additions should be made to

 Dictionary 31 (Branch)

DIS	For discrete spectrum
CON	For continuous spectrum

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By the way, at TSUKUBA-2001 there is at least one paper with the data for discrete and continuous spectra gamma production cross sections.