

MEMO 4C - 4 / 86

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To: Distribution
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Subject: New REACTION Quantity codes for SF5-SF8 in **Diction
36.**

There exists some **contradictions** between Dictionaries 34
and 36. In Dictionary 34 there are codes:

RS - modifier for differential Cross-Section expansion of the
form

$$\text{SUM}(A(L)*P(L))$$

RSL - modifier for differential Cross-Section expansion of the
form

$$\text{SUM}((2L+1)*A(L)*P(L))$$

In Dictionary 36 in a section "ANGULAR DISTRIBUTIONS. GENERAL
USE"
we have codes which correspond to this general definitions. But in
the
same Dictionary, Section FISSION-FRAGMENTS, we read:

,DA,FF,LEG/RS	NO	(Leg.coef.4pi/Sig d/dA=Sum((2L+1)a(L)p(L)),
30000 36 986		f.frag)
30000 36 987		(Angular distr. of fission-fragments,
30000 36 988		Legendre coeff. of the form
30000 36 989		4pi/Sig d-Sig/d-Omega=Sum((2L+1)a(L)p(L)))
30000 36 990		

On this reason the following changes are proposed for inclusion
in dictionary 36:

Diction 36:

1. Add **new** item:

,DA,FF,LEG/RS NO (Leg.coef.4pi/Sig d/dA=Sum(a(L)p(L)),
f.frag)
(Angular distr. of fission-fragments,
Legendre coeff. of the form
4pi/Sig d-Sig/d-Omega=Sum(a(L)p(L)))

REFERENCE (J,YF,61,(3),389,9803);
SUBENT 41295002

Example: REACTION (92-U-235(N,F),PRE,DA,FF,LEG/RS/FCT)
4129500200003

2. **Change** the line

,DA,FF,LEG/RS NO (Leg.coef.4pi/Sig d/dA=Sum((2L+1)a(L)p(L)),
30000 36 986
to
,DA,FF,LEG/RSL NO (Leg.coef.4pi/Sig d/dA=Sum((2L+1)a(L)p(L)),
30000 36 986

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