

Subject: Repeat - MEMO 4C-4/83  
Date: Thu, 10 Sep 1998 09:49:46 +0000 (GMT)  
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**MEMO 4C - 4 / 83**  
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DATE : 09 Sept, 1998

To:        Distribution

From:     S. Mayev

Subject:            New REACTION Quantity codes for Diction 36.

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The following codes are proposed for inclusion in **dictionary 36**:

- PAR/M-,SIG,G**    Cross Section for prompt discrete gamma-ray production,  
                  i.e. excluding formation via an isomeric level.
- PAR/M+,SIG,G**    Cross Section for delayed discrete gamma-ray production,  
                  i.e. including formation via an isomeric level.

Reference: 1.  
A.Meister, E.Wattecamp, A.J.Koning, A.Hogenbirk, H.Gruppelaar.  
Cross Sections of inelastic Neutron Scattering for Palladium  
Isotope Nuclei.  
Conference on Nuclear Data for Science and Technology,  
Trieste,Italy, 19-24 May 1997, Vol. 1, p. 587.

2. E-mail from A.Meister.  
  
.....

> Cross section for inelastic neutron scattering to the second 2+ state  
> (931keV) in Pd-108 and subsequent 931keV gamma-ray emission in dependence  
> on the neutron energy

>

Enl...Enu [MeV]		Cross Section [Barn]	-----
>	.70    .75	.00+/- .01	
>	.75    .80	.01+/- .01	
>	.80    .85	-.01+/- .01	
>	.85    .90	-.01+/- .01	
>	.90    .95	-.01+/- .01	
>	.95    1.00	.01+/- .01	
>	1.00   1.10	.03+/- .01	
>	1.10   1.20	.07+/- .01	
>	1.20   1.30	.08+/- .01	-----

>

Example: REACTION (46-PD-108(N,INL)46-PD-108,PAR/M-,SIG,G)

>  
>  
> Cross section for inelastic neutron scattering to the second 2+ state  
> (931keV) in Pd-108 and subsequent 497keV gamma-ray emission in dependence  
> on the neutron energy

Enl...Enu [MeV]	Cross Section [Barn]	-----
.70 .75	-.01+/- .01	
.75 .80	-.01+/- .01	
.80 .85	-.01+/- .01	
.85 .90	-.01+/- .01	
.90 .95	.00+/- .01	
.95 1.00	.05+/- .01	
1.00 1.10	.14+/- .02	
1.10 1.20	.21+/- .03	-----

>  
Example: REACTION (46-PD-108(N,INL)46-PD-108,PAR/M+,SIG,G)

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Stanislav Maev

Clearance: Vassily N. Manokhin.

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