162 **Dy**(36 **S,F** γ) **1996Po06**

History								
Type	Author	Citation	Literature Cutoff Date					
Full Evaluation	Coral M. Baglin	NDS 112, 1163 (2011)	15-Dec-2010					

 $E(^{36}S)=162$ MeV; Au-backed ^{162}Dy target; EUROGAM1 detector array (30 escape-suppressed, large-volume Ge detectors); measured $E\gamma$ ($E\gamma$ -100-2000 keV), $I\gamma$, prompt $\gamma\gamma$ coin between transitions in complementary fission fragments.

⁹³Zr Levels

The authors were unable to construct a level scheme. However, based on the conclusions from other subsequent studies, the evaluator has been able to place most of the transitions from 1996Po06, As shown here.

E(level) [†]	E(level) [†]	E(level) [†]
0.0 950.3 5 2285.2 7 2375.5 7	2486.8 8 2601.9 9 2990.4 8 3265.7 9	3331.9 <i>12</i> 3657.9 <i>11</i> 4717.8 <i>12</i> 5480.2 <i>13</i> 6648.3 <i>14</i>

[†] From least-squares fit to Ey, assigning ΔE =0.5 keV to all Ey data.

$\gamma(^{93}\text{Zr})$

$\mathrm{E}_{\gamma}^{\dagger}$	I_{γ}^{\ddagger}	$E_i(level)$	E_f	E_{γ}^{\dagger}	I_{γ}^{\ddagger}	$E_i(level)$	E_f	E_{γ}^{\dagger}	I_{γ}^{\ddagger}	$E_i(level)$	\mathbf{E}_f
(66.2 [#])		3331.9	3265.7	392.2	21	3657.9	3265.7	1059.9	49	4717.8	3657.9
111.2	72	2486.8	2375.5	503.5	78	2990.4	2486.8	^x 1081.2	23		
115.1	19	2601.9	2486.8	705.2	43	2990.4	2285.2	1168.1	24	6648.3	5480.2
^x 180.6	27			^x 711.6	28			1335.0	52	2285.2	950.3
275.3	83	3265.7	2990.4	762.4	28	5480.2	4717.8	1425.1	100	2375.5	950.3
326.0	77	3657.9	3331.9	950.3	100	950.3	0.0				

 $^{^{\}dagger}$ Uncertainties range from 0.2 to 0.5 keV, depending on Iy.

[‡] Uncertainties are 10%–30%.

 $^{^{\#}}$ Transition expected but not observed; E γ from level energy difference.

 $^{^{}x}$ γ ray not placed in level scheme.





