

$^{85}\text{Rb}(\alpha, 3n\gamma)$ **1984Da06**

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh	NDS 124, 1 (2015)	30-Nov-2014

1984Da06: E=30 MeV to 55 MeV. Measured $E\gamma$, $I\gamma$, $\gamma(\theta)$.

Additional information 1.

In addition to the level scheme given here, 1984Da06 reported a high-spin cascade which was later shown by 1985Li11 to be due to ^{86}Sr . Thus the following high-spin ($J=9-11$) levels (gammas) proposed by 1984Da06 are omitted here: 2134.5 (1690.2 γ), 2073.6 (1628.9 γ), 1699.8 (129.7 γ), 1570.1 (1125.4 γ), 1295.3 (850.6 γ), 1237.6 (338.1 γ), 899.5 (681.2 γ), 444.7 (226.4 γ).

The levels proposed at 507.8, 1022.0 and 1152.6 are also not seen in a tentative level scheme of 2000BuZW. The 1078.9 level is the only level above 302 level which may be common to a tentative 1074 level proposed by 2000BuZW.

 ^{86}Y Levels

E(level)	J^π [†]	Comments
0	4 ⁻	
208.1 3	(5) ⁻	
302.3 5	(6 ⁺)	
507.8? 5		
1022.0 5		
1078.9 5		J ^π : 6 (1984Da06).
1152.6 5		

[†] From Adopted Levels.

 $\gamma(^{86}\text{Y})$

E_γ	I_γ [†]	E_i (level)	J_i^π	E_f	J_f^π	Comments
78.0 3	1.3 1					
94.2 3	5.8 6	302.3	(6 ⁺)	208.1	(5) ⁻	$A_2=-0.52$ 14.
208.1 3	100 10	208.1	(5) ⁻	0	4 ⁻	$A_2=-0.19$ 20.
299.7 [‡] 3	1.0 1	507.8?		208.1	(5) ⁻	$A_2=-0.57$ 34.
813.9 3	0.4	1022.0		208.1	(5) ⁻	
870.8 3	4.2 4	1078.9		208.1	(5) ⁻	$A_2=-0.34$ 19.
944.5 3	2.9 3	1152.6		208.1	(5) ⁻	

[†] At E=50 MeV.

[‡] Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

