

$^{81}\text{Br}(\alpha,3n\gamma)$  1980Be08

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli, E. Browne		NDS 157, 260 (2019)	1-Mar-2019

E=45 MeV. Enriched target. Ge(Li). Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ ,  $\alpha\gamma(\theta)$ ,  $\alpha\gamma(t)$ .

$^{82}\text{Rb}$  Levels

E(level) <sup>†</sup>	$J^\pi$ <sup>†</sup>	$T_{1/2}$ <sup>‡</sup>	Comments
0.0	1 <sup>+</sup>	1.2575 min 2	$T_{1/2}$ : From Adopted Levels.
68.9	5 <sup>-</sup>		<a href="#">Additional information 1.</a>
192.1 3	(6)		
256.6 5	(7)	<5 ns	
302.5 6	(8)	<5 ns	
865.2 6	(9)		
1283.0 6	(10)		
1904.4 7			

<sup>†</sup> 1980Be08 could not determine whether the cascade ends on the g.s. or the 5<sup>-</sup> level. The evaluators placed it feeding the 5<sup>-</sup> level based on  $^{79}\text{Br}(\alpha,ny)$ .

<sup>‡</sup> From  $\gamma(t)$ , except where noted.

$\gamma(^{82}\text{Rb})$

$E_\gamma$	$I_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. <sup>†</sup>
45.9 3	100 10	302.5	(8)	256.6 (7)		D
64.5 3	190 19	256.6	(7)	192.1 (6)		D
<sup>x</sup> 84.9 3	5 1					
<sup>x</sup> 88.7 3	5 1					
123.2 3	340 34	192.1	(6)	68.9 5 <sup>-</sup>		D
<sup>x</sup> 130.4 3	7 1					
<sup>x</sup> 132.8 3	3.5 4					
<sup>x</sup> 156.7 3	12 1					
<sup>x</sup> 186.5 3	13 1					
417.8 3	12 1	1283.0	(10)	865.2 (9)		D
562.7 3	74 7	865.2	(9)	302.5 (8)		D
621.4 3	30 3	1904.4		1283.0 (10)		
980.5 3	45 5	1283.0	(10)	302.5 (8)		Q

<sup>†</sup> From  $\gamma(\theta)$ .

<sup>x</sup>  $\gamma$  ray not placed in level scheme.

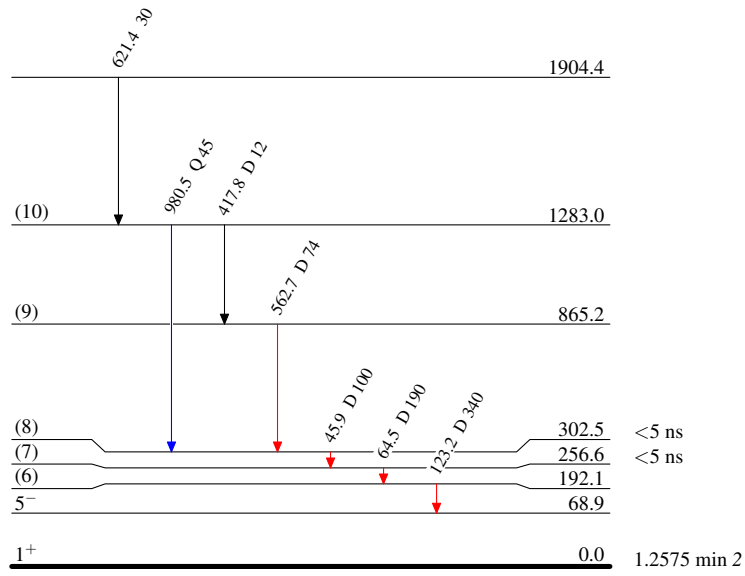
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## Level Scheme

Intensities: Relative  $I_\gamma$ 

## Legend

- $\blackrightarrow$   $I_\gamma < 2\% \times I_\gamma^{max}$
- $\color{blue}\blackrightarrow$   $I_\gamma < 10\% \times I_\gamma^{max}$
- $\color{red}\blackrightarrow$   $I_\gamma > 10\% \times I_\gamma^{max}$

 $^{82}_{37}\text{Rb}_{45}$