

$^{185}\text{Re}(\gamma, \gamma')$ 1967Me06

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 106, 619 (2005)	1-Nov-2005

1967Me06: γ -radiation following ^{185}Os ε -decay; One-rotor geometry, source velocity $1.15\text{-}1.30 \times 10^5$ cm/s; NaI and Ge(Li) detectors.

 ^{185}Re Levels

E(level)	J^π [†]	$T_{1/2}$ [‡]	$g\Gamma_{\gamma 0}^2/\Gamma$ (eV)
0.0	5/2 ⁺		
125.3	7/2 ⁺		
645.9	1/2 ⁺	6.3 ps 4	2.37×10^{-5} 15
717.8 5	3/2 ⁺	2.6 ps 7	4.8×10^{-5} 10
874.0 5	3/2 ⁺	1.08 ps 14	2.7×10^{-4} 3

[†] Adopted values.

[‡] Calculated by evaluator from measured $g\Gamma_{\gamma 0}^2/\Gamma$ and adopted $\Gamma_{\gamma 0}/\Gamma$.

 $\gamma(^{185}\text{Re})$

E_γ	$\Gamma_{\gamma 0}/\Gamma$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
(71.4 [†])		717.8	3/2 ⁺	645.9	1/2 ⁺
592		717.8	3/2 ⁺	125.3	7/2 ⁺
645.9 5	0.99	645.9	1/2 ⁺	0.0	5/2 ⁺
717.8	0.64 5	717.8	3/2 ⁺	0.0	5/2 ⁺
(749.4 [†])		874.0	3/2 ⁺	125.3	7/2 ⁺
874.0 5	0.980 4	874.0	3/2 ⁺	0.0	5/2 ⁺

[†] Transition was not observed in (γ, γ') .

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Legend

Level Scheme

Intensities: Type not specified

- \longrightarrow $I_\gamma < 2\% \times I_\gamma^{max}$
- \longrightarrow $I_\gamma < 10\% \times I_\gamma^{max}$
- \longrightarrow $I_\gamma > 10\% \times I_\gamma^{max}$
- $-\text{---}$ γ Decay (Uncertain)

