

$^{185}\text{Re}(\alpha,6n\gamma)$ 1977An02

| Type | Author | History Citation | Literature Cutoff Date |
|-----------------|-----------------|---------------------|------------------------|
| Full Evaluation | Coral M. Baglin | NDS 134, 149 (2016) | 15-Apr-2015 |

$E(\alpha)=72$ MeV; measured E_γ , I_γ , $\gamma(\theta)$, $\gamma\gamma$ coin.

 ^{183}Ir Levels

| E(level) [†] | J^π [‡] | Comments |
|------------------------|----------------------|--------------------------------|
| 0.0 | 5/2 ⁻ | |
| 15.8 [#] 3 | 9/2 ⁻ | E(level): from Adopted Levels. |
| 184.9 [#] 12 | 13/2 ⁻ | |
| 493.3 [#] 16 | 17/2 ⁻ | |
| 917.8 [#] 19 | 21/2 ⁻ | |
| 1425.9 [#] 21 | 25/2 ⁻ | |
| 1976.7 [#] 24 | 29/2 ⁻ | |
| 2539 [#] 3 | 33/2 ⁻ | |
| 3118 [#] 3 | 37/2 ⁻ | |
| 3744 [#] 3 | 41/2 ⁻ | |

[†] From E_γ , assigning 1 keV uncertainty to all data. values are given assuming the adopted energy (15.8 keV) for the J=9/2 level; the authors assumed the 9/2 level was the g.s..

[‡] Authors' values, based on deduced band structure, adjusted by evaluator assuming the lowest-energy level observed was the J=9/2 band member, not the J=5/2 g.s..

[#] Band(A): π 1/2[541] band.

 $\gamma(^{183}\text{Ir})$

| E_γ | I_γ | $E_i(\text{level})$ | J_i^π | E_f | J_f^π | Mult. [†] |
|------------|------------|---------------------|-------------------|--------|-------------------|--------------------|
| 168.6 | 164 | 184.9 | 13/2 ⁻ | 15.8 | 9/2 ⁻ | Q |
| 308.4 | 127 | 493.3 | 17/2 ⁻ | 184.9 | 13/2 ⁻ | Q |
| 424.5 | 96 | 917.8 | 21/2 ⁻ | 493.3 | 17/2 ⁻ | Q |
| 508.1 | 71 | 1425.9 | 25/2 ⁻ | 917.8 | 21/2 ⁻ | Q |
| 550.8 | 48 | 1976.7 | 29/2 ⁻ | 1425.9 | 25/2 ⁻ | Q |
| 561.9 | 30 | 2539 | 33/2 ⁻ | 1976.7 | 29/2 ⁻ | Q |
| 579.5 | 19 | 3118 | 37/2 ⁻ | 2539 | 33/2 ⁻ | Q |
| 625.9 | 13 | 3744 | 41/2 ⁻ | 3118 | 37/2 ⁻ | Q |

[†] Assigned by the authors on the basis of unspecified $\gamma(\theta)$ data.

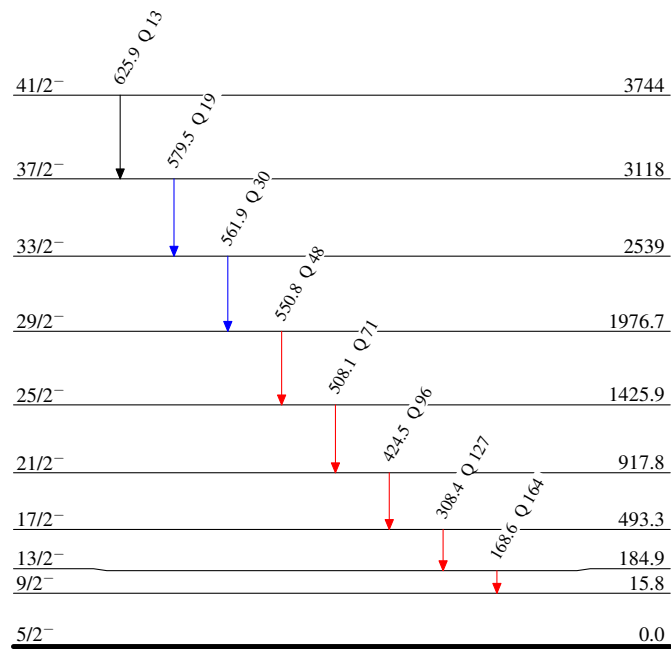
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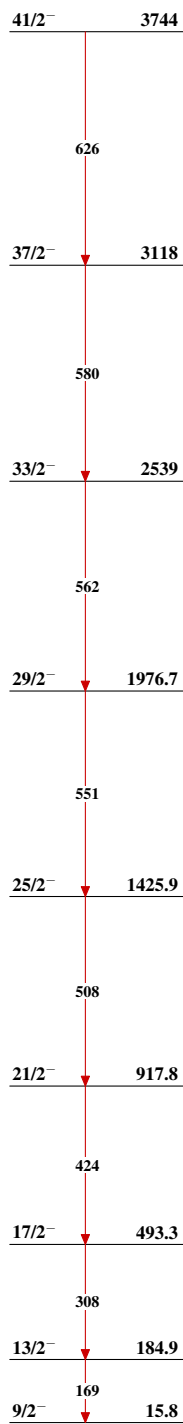
Level Scheme

Intensities: Relative I_γ

Legend

- \longrightarrow $I_\gamma < 2\% \times I_\gamma^{\max}$
- \longrightarrow $I_\gamma < 10\% \times I_\gamma^{\max}$
- \longrightarrow $I_\gamma > 10\% \times I_\gamma^{\max}$

 $^{183}_{77}\text{Ir}_{106}$

$^{185}\text{Re}(\alpha,6n\gamma)$ 1977An02Band(A): π 1/2[541]
band $^{183}_{77}\text{Ir}_{106}$