

$^{92}\text{Zr}(\text{n},\gamma)$ E=2, 24 keV [1978KeZT](#)

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

[Additional information 1.](#)

E(n)=2, 24 keV; 96.69% ^{92}Zr target, Ge(Li) detectors; measured I_γ and unenumerated E_γ for primary γ rays only; deduced S(n).

 ^{93}Zr Levels

E(level) [‡]	J ^π [†]	Comments
0.0	5/2 ⁺	Additional information 2.
267	3/2 ⁺	Additional information 3.
947	1/2 ⁺	Additional information 4.
1425	3/2 ⁺ , 5/2 ⁺	Additional information 5.
1450	(1/2 ⁺ , 3/2, 5/2 ⁺)	Additional information 6.
1471	(1/2 ⁺ , 3/2, 5/2 ⁺)	Additional information 7.
1642	3/2 ⁺ , 5/2 ⁺	Additional information 8.
1918	(1/2, 3/2, 5/2 ⁺)	Additional information 9.
2047		Additional information 10.
2075		Additional information 11.
2097	1/2 ⁺	Additional information 12.
2548	3/2 ⁺ , 5/2 ⁺	
6736.5 [#] 4	1/2, 3/2 ⁻ [#]	
6758.2 [#] 4	1/2, 3/2 ⁻ [#]	

[†] From Adopted Levels, except as noted.

[‡] From [1978KeZT](#). ΔE not stated by authors; however, authors deduce S(n)=6734.7 7 (cf. adopted S(n)=6734.4 5 from [2009AuZZ](#)).

[#] E from E_n and S(n)=6734.4 5 ([2009AuZZ](#)); J^π from s-wave and/or p-wave capture by 0⁺ target.

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

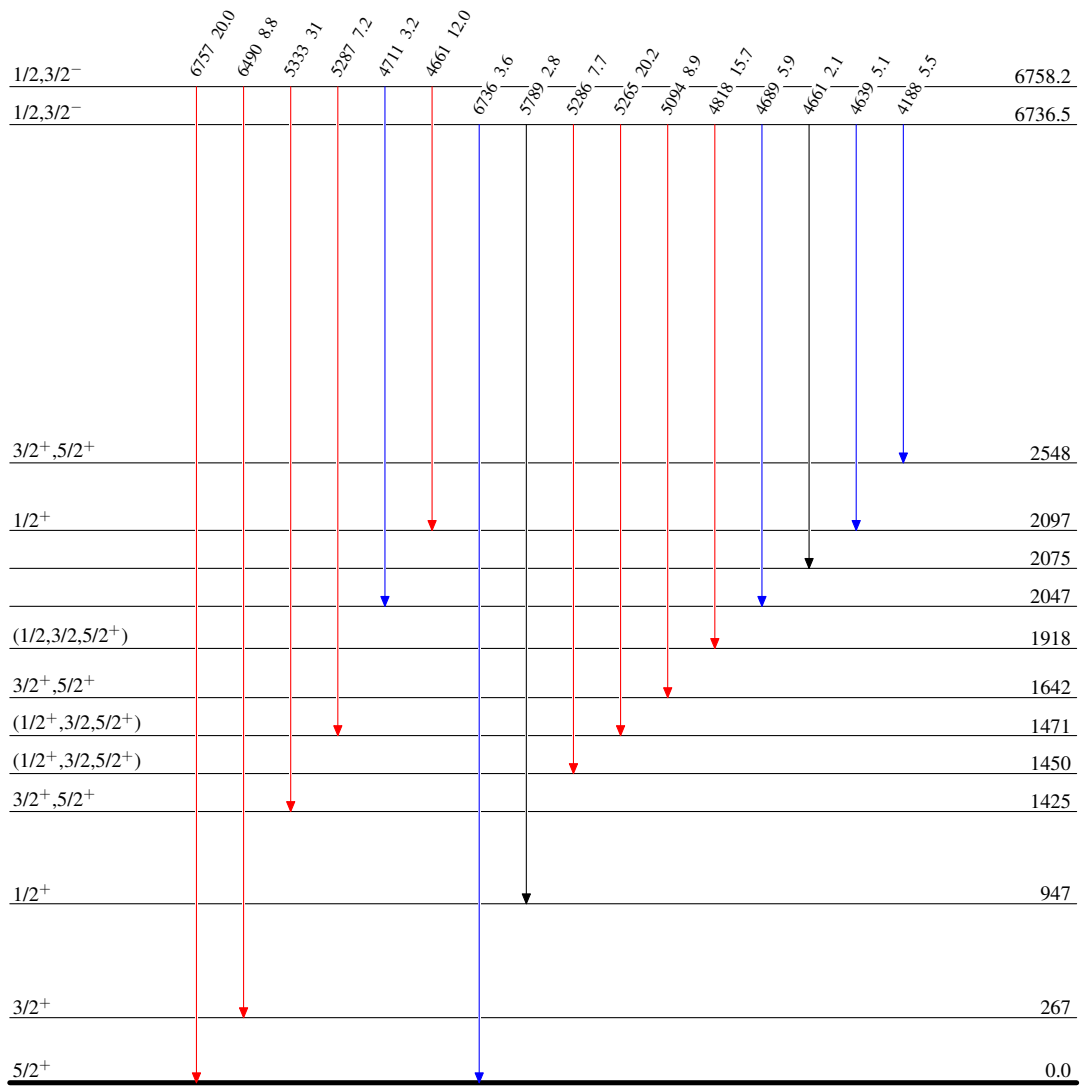
E _γ [†]	I _γ [‡]	E _i (level)	J _i ^π	E _f	J _f ^π
4188	5.5 6	6736.5	1/2, 3/2 ⁻	2548	3/2 ⁺ , 5/2 ⁺
4639	5.1 6	6736.5	1/2, 3/2 ⁻	2097	1/2 ⁺
4661	2.1 3	6736.5	1/2, 3/2 ⁻	2075	
4661	12.0 12	6758.2	1/2, 3/2 ⁻	2097	1/2 ⁺
4689	5.9 7	6736.5	1/2, 3/2 ⁻	2047	
4711	3.2 4	6758.2	1/2, 3/2 ⁻	2047	
4818	15.7 15	6736.5	1/2, 3/2 ⁻	1918	(1/2, 3/2, 5/2 ⁺)
5094	8.9 10	6736.5	1/2, 3/2 ⁻	1642	3/2 ⁺ , 5/2 ⁺
5265	20.2 18	6736.5	1/2, 3/2 ⁻	1471	(1/2 ⁺ , 3/2, 5/2 ⁺)
5286	7.7 9	6736.5	1/2, 3/2 ⁻	1450	(1/2 ⁺ , 3/2, 5/2 ⁺)
5287	7.2 8	6758.2	1/2, 3/2 ⁻	1471	(1/2 ⁺ , 3/2, 5/2 ⁺)
5333	31 3	6758.2	1/2, 3/2 ⁻	1425	3/2 ⁺ , 5/2 ⁺
5789	2.8 4	6736.5	1/2, 3/2 ⁻	947	1/2 ⁺
6490	8.8 10	6758.2	1/2, 3/2 ⁻	267	3/2 ⁺
6736	3.6 6	6736.5	1/2, 3/2 ⁻	0.0	5/2 ⁺
6757	20.0 20	6758.2	1/2, 3/2 ⁻	0.0	5/2 ⁺

[†] From level energy differences (corrected for recoil).

[‡] From [1978KeZT](#).

$^{92}\text{Zr}(n,\gamma)$ E=2, 24 keV 1978KeZT**Level Scheme**Intensities: Relative I_γ **Legend**

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

 $^{93}_{40}\text{Zr}_{53}$