

$^{51}\text{V}(^{36}\text{S},\text{p}2\text{n}\gamma)$ 1993Li26

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	B. Singh, A. Negret, and K. Zuber		NDS 110,2815 (2009)	30-Sep-2009

1993Li26: E=130 MeV. Measured E_γ , I_γ , $\gamma\gamma$ using an array of 20 Compton-suppressed Ge detectors surrounded by a multiplicity filter of 71 BGO detectors at Chalk River. See also abstract by Chowdhury et al., Bull. Am. Phys. Soc. 37, 1279 (1992) where the experiment is mentioned.

 ^{84}Sr Levels

E(level) [†]	J ^π [‡]	E(level) [†]	J ^π [‡]	E(level) [†]	J ^π [‡]	E(level) [†]	J ^π [‡]
0.0 [@]	0 ⁺	3487.0 ^a 18	7 ⁻	5652.0 ^{&} 21	12 ⁺	9425 ^b 3	18 ⁺
793.0 [@] 10	2 ⁺	3679.0 ^{&} 19	8 ⁺	5891.0 22	(12 ⁺)	11060 ^b 3	20 ⁺
1767.0 [@] 15	4 ⁺	4447.0 20	10 ⁺	6738.0 ^b 23	14 ⁺	12919 ^b 3	22 ⁺
2768.0 ^a 17	5 ⁻	4533.0 ^{&} 20	10 ⁺	7822.1 25	15 ⁺	15044? ^{#b} 3	(24 ⁺)
2807.0 [@] 17	6 ⁺	4635.0 ^a 20	9 ⁻	8006.1 ^b 25	16 ⁺		
3331.0 19	8 ⁺	5443.0 ^a 23	11 ⁻	9098.1 25	17 ⁺		

[†] From E_γ 's, assuming $\Delta(E_\gamma)=1$ keV for each γ ray.

[‡] As proposed by 1993Li26 based on earlier assignments in literature and band assignments in their study.

[#] The 24⁺ member is tentatively assigned at 15083 keV by 1994Ga15 decaying by a 2160 γ , also listed in Adopted Levels, gammas dataset.

[@] Band(A): g.s. band.

[&] Band(B): Band based on 8⁺.

^a Band(C): Band based on 5⁻.

^b Band(D): Band based on 14⁺.

 $\gamma(^{84}\text{Sr})$

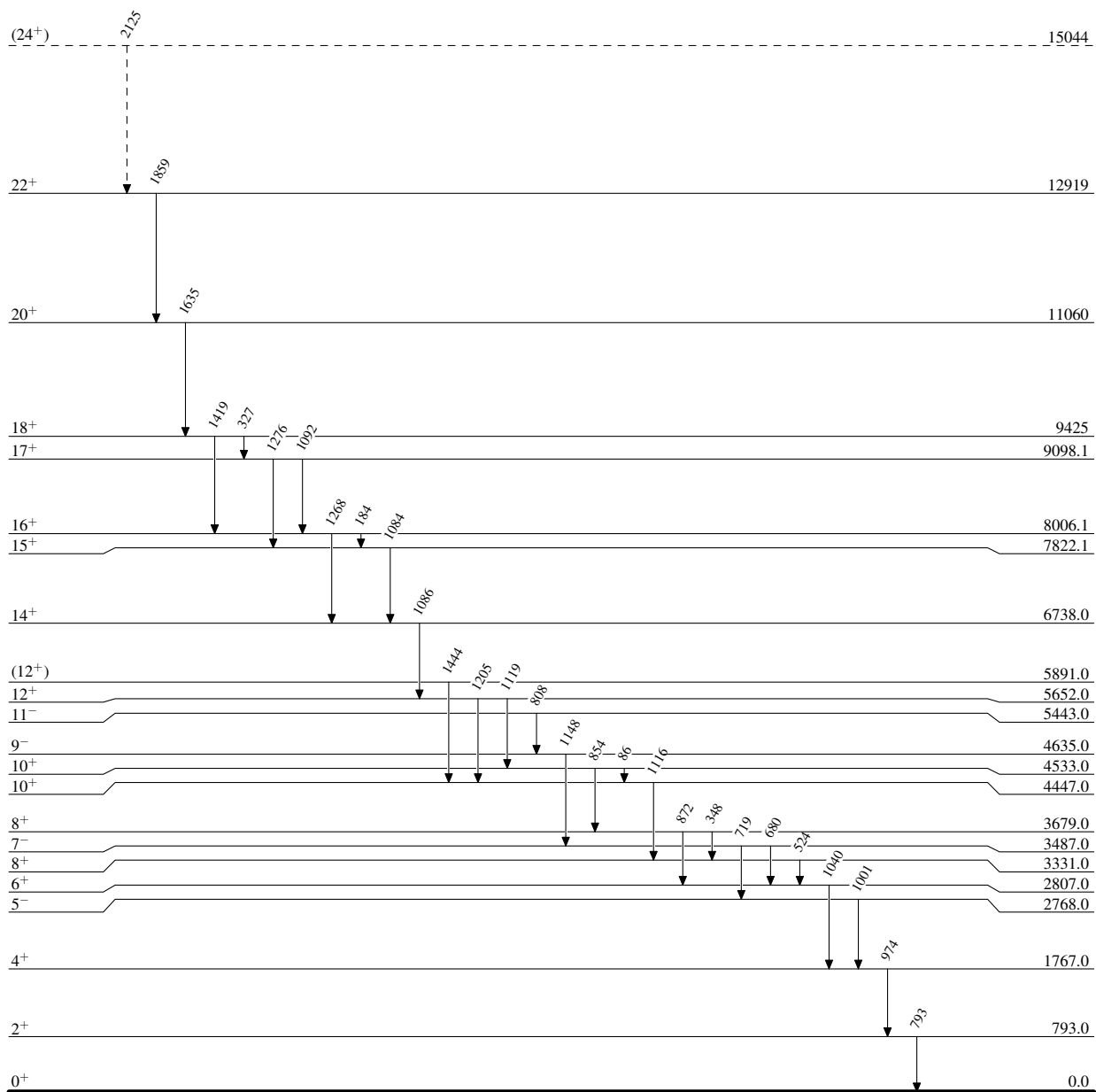
E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
86	4533.0	10 ⁺	4447.0	10 ⁺	1084	7822.1	15 ⁺	6738.0	14 ⁺
184	8006.1	16 ⁺	7822.1	15 ⁺	1086	6738.0	14 ⁺	5652.0	12 ⁺
327	9425	18 ⁺	9098.1	17 ⁺	1092	9098.1	17 ⁺	8006.1	16 ⁺
348	3679.0	8 ⁺	3331.0	8 ⁺	1116	4447.0	10 ⁺	3331.0	8 ⁺
524	3331.0	8 ⁺	2807.0	6 ⁺	1119	5652.0	12 ⁺	4533.0	10 ⁺
680	3487.0	7 ⁻	2807.0	6 ⁺	1148	4635.0	9 ⁻	3487.0	7 ⁻
719	3487.0	7 ⁻	2768.0	5 ⁻	1205	5652.0	12 ⁺	4447.0	10 ⁺
793	793.0	2 ⁺	0.0	0 ⁺	1268	8006.1	16 ⁺	6738.0	14 ⁺
808	5443.0	11 ⁻	4635.0	9 ⁻	1276	9098.1	17 ⁺	7822.1	15 ⁺
854	4533.0	10 ⁺	3679.0	8 ⁺	1419	9425	18 ⁺	8006.1	16 ⁺
872	3679.0	8 ⁺	2807.0	6 ⁺	1444	5891.0	(12 ⁺)	4447.0	10 ⁺
974	1767.0	4 ⁺	793.0	2 ⁺	1635	11060	20 ⁺	9425	18 ⁺
1001	2768.0	5 ⁻	1767.0	4 ⁺	1859	12919	22 ⁺	11060	20 ⁺
1040	2807.0	6 ⁺	1767.0	4 ⁺	2125 [†]	15044?	(24 ⁺)	12919	22 ⁺

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

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Legend

Level Scheme

 -----► γ Decay (Uncertain)

 $^{84}_{38}\text{Sr}_{46}$

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