

$^{84}\text{Sr}(\text{p,p}'),(\text{p,p}'\gamma)$ 1973Re01

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

1973Re01: E=13.13 MeV. Enriched (82.2%) target. (p,p'): four surface-barrier detectors. FWHM=78 keV at 12.57 MeV. (p,p'γ): two surface-barrier detectors placed at 120° and 135° with respect to the beam axis. FWHM=150 keV at 12.66 MeV. Ge(Li) placed at 120°. Measured py coin.

 ^{84}Sr Levels

E(level) [†]	Jπ [‡]	Comments
0	0 ⁺	
793 1	2 ⁺	E(level): most intensely populated excited state. Additional information 1.
1454 2		Additional information 2.
1502? 2		
1767		Additional information 3.
2070 30		
2450 2	3 ⁻	Additional information 4.
2620? 30		E(level): listed only In table II of 1973Re01 .
2760 30		
2810? 30		
2880 30		
3020? 30		
3180 30		
3240? 30		
3340? 30		
3400 30		
3480? 30		
3530? 30		

[†] Energies with ΔE=30 keV are from (p,p'), the others are deduced from E_γ.

[‡] From Adopted Levels.

γ(^{84}Sr)

E _γ	E _i (level)	J _i ^π	E _f	J _f ^π	Comments
661 1	1454		793	2 ⁺	In coin with 1460, 2450, 2620 proton groups.
709 [†]	1502?		793	2 ⁺	In coin with 1460, (1502) proton groups.
793 1	793	2 ⁺	0	0 ⁺	In coin with 793, 1460, (1502), 1770, 2450, 2620 proton groups.
^x 905					E _γ : very weak γ seen In py coin. In coin with 2450, 2620 proton groups.
974	1767		793	2 ⁺	In coin with 1770 proton group.
994 1	2450	3 ⁻	1454		In coin with 2450, 2620 proton groups.

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

^x γ ray not placed in level scheme.

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Legend

Level Scheme

-----► γ Decay (Uncertain)

