

$^{86}\text{Sr}(\text{t,p})$ 1970Ra10

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

1970Ra10: E(t)=15 MeV. Measured $\sigma(\theta)$ for $\theta=10^\circ-100^\circ$ (in 2.5° steps) using $\Delta\text{E-E}$ Si counter telescope (FWHM=35-40 keV).

Some close-lying lines are investigated with a broad-range magnetic spectrometer and nuclear emulsion plates (FWHM=25 keV); DWBA analysis.

1967GI08: E(t)=12 MeV. Measured relative population of 0^+ states (g.s., 3.15 MeV and 4.48 MeV) using multiangle spectrograph.

Excitation energies are systematically ≈ 100 keV smaller than 1970Ra10.

 ^{88}Sr Levels

E(level)	$L^\dagger$	$d\sigma/d\Omega_{\text{max}}$ ($\mu\text{b/sr}$)	E(level)	$L^\dagger$	$d\sigma/d\Omega_{\text{max}}$ ($\mu\text{b/sr}$)
0	0	114	5699 10		≈ 79 @
1836	2	18.4	5724 10		≈ 3
2734	3	20.7	5766 10	(0)	38
3151 3	0	35.1	5806 10	(3,2)	65
3220 10	2	13.7	5855 10	(3)	65
3990 5	4,3	10.5	6005 5	(2)	39
4033 3	2	100	6048 3	(2)	97
4232 10	4	6.0	6123 3	(3)	59
4298 3	4	39.6	6149 6	(1)	69
4416 10	2,6 ‡	17.8	6212?# 15		≈ 10
4484 5	0	168	6270 4	(2)	259
4619 5	2	45	6307 3	(2)	156
4763 3	2	98	6362 10	(4,3)	115
4794 4	0	74	6428 4		39
4838 4	(3)	68	6512 10	(2)	126
4983 3	2	45	6582 10		≈ 320 @
5076?# 10	(1)	12.9	6605 3		≈ 320 @
5165 4	2	564	6691 3		≈ 100
5259 5	(3)	49	6735 10		≈ 14
5376 10	4	16.2	6804 4	(4)	129
5470 3	4	85	6874 10		≈ 350 @
5583?# 10		≈ 10	6892 10		≈ 350 @
5685 10		≈ 79 @	7017?# 10		≈ 70

† From DWBA analysis of angular distributions.

‡ Unresolved doublet.

Weak line. Assignment to ^{88}Sr uncertain.

@ Combined value for close-lying peaks.