

$^{86}\text{Sr}(\text{p,t})$ 1973Ba56,1973Mo11

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

1973Ba56: E(p)=31 MeV. FWHM=18 keV. Measured ^3H spectra and $\sigma(\theta)$ using magnetic spectrograph. DWBA analysis. 82.2% enriched target.

1973Mo11: E(p)=49.5 MeV. FWHM=75 keV. Measured ^3H spectra, cross sections and $\sigma(\theta)$ using magnetic spectrograph. DWBA analysis.

Peak cross sections listed here are from 1973Mo11.

 ^{84}Sr Levels

E(level) [†]	L [‡]	Enhancement factor	Comments
0	0	13.0	$d\sigma/d\Omega=6.25$ at 15° . Additional information 1.
795 5	2	3.0	$d\sigma/d\Omega=2.31$ at 10° . Additional information 2.
1455 5	(2)	0.4	$d\sigma/d\Omega=0.87$ at 5° .
1505 5	0	1.0	
1770 5	(4)	0.4	$d\sigma/d\Omega=0.39$ at 5° . Additional information 3.
2075 5	0	1.0	$d\sigma/d\Omega=1.32$ at 5° . Additional information 4.
2390 5	2	0.5	$d\sigma/d\Omega=2.38$ at 5° . L: (3,4) (1973Mo11).
2450 5	3	1.4	
2525 5	(0)	0.4	
2600 5			
2775 5	(5)	0.3	$d\sigma/d\Omega=3.96$ at 5° .
2880 5	2	0.7	
3045 5	(4,5)	1.3	$d\sigma/d\Omega=2.27$ at 10° . L: (4) is supported by 1973Ba56 and (5) by 1973Mo11 Adopted value requires L=5. !!! check the ADOPTED.
3175 5	(2)	0.6	
3270 30	3		$d\sigma/d\Omega=1.01$ at 5° .
3450 30			$d\sigma/d\Omega=1.55$ at 15° .
3750 30	(3,4) [#]		$d\sigma/d\Omega=1.64$ at 5° .
4080 30	4 [#]		$d\sigma/d\Omega=2.84$ at 5° .
4270 30			$d\sigma/d\Omega=1.58$ at 15° .
4530 30			$d\sigma/d\Omega=2.19$ at 15° .

[†] From 1973Ba56 for levels up to 3200 keV. Above this energy levels are reported only by 1973Mo11.

[‡] From DWBA analysis of $\sigma(\theta)$ data from 1973Ba56 up to 3200 keV. Above this energy the assignments are from 1973Mo11.

[#] $\sigma(\theta)$ distributions not shown. is adopted since 1973Mo11 do not resolve the neighboring level.