

**$^{88}\text{Sr}(\text{p},\gamma)$     1979Sz06,1971Um02,1969Ir01**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 114, 1 (2013)	20-Oct-2012

**1979Sz06:** E=2-3 MeV. Measured  $E\gamma$ ,  $I\gamma$ ; deduced  $\gamma$ -ray strength functions.

**1971Um02:** E=2.3-3.0 MeV. Measured  $\gamma$ ,  $\gamma\gamma$  coin, excitation functions. Level scheme deduced up to 3610, cross sections and yields.

**1969Ir01:** E=3.93 MeV. Measured  $\gamma$  spectra. Both s-wave and d-wave captures are involved.

Others:

**1982Dy01:** E=2.2-3.7 MeV. Measured  $\sigma(E)$ , deduced level density.

**1984Se16:**  $^{88}\text{Sr}(\text{pol p},\gamma)$  E=15 MeV, analyzed  $\sigma(\theta)$ ,  $A\gamma(\theta)$ .

[Additional information 1](#).

 **$^{89}\text{Y}$  Levels**

See [1979Sz06](#) for  $\gamma$ -ray strength functions.

E(level) <sup>†</sup>	J <sup>‡</sup>	Relative yields <sup>#</sup>	Comments
0	1/2 <sup>-</sup>	100.0 <i>I</i> 8	
909	9/2 <sup>+</sup>	12.4 <i>I</i> 7	
1508	3/2 <sup>-</sup>	82.6 <i>I</i> 8	
1745	5/2 <sup>-</sup>	38.4 <i>I</i> 2	
2225	5/2 <sup>+</sup>	25.4 <i>I</i> 2	
2531	7/2 <sup>+</sup>	5.6 <i>I</i> 7	
2566?@			Additional information 2.
2628	9/2 <sup>+</sup>	2.5 <i>I</i> 9	
2687?		1.9 <i>I</i> 9	
2871?@			Relative yields: 26 8 ( <a href="#">1971Um02</a> ) for 2871+2889.
2880	(3/2) <sup>-</sup>	30.8 <i>I</i> 3	
3067	3/2 <sup>-</sup>	24.7 <i>I</i> 9	
3105	(5/2) <sup>-</sup>	12.8 <i>I</i> 2	
3139	(5/2) <sup>-</sup>	10.4 <i>I</i> 5	
3248	(3/2,5/2)	17.9 <i>I</i> 2	
3410	(5/2 <sup>+</sup> )	2.3 <i>I</i> 9	
3450	(7/2 <sup>+</sup> )	7.5 <i>I</i> 8	
3502	(7/2 <sup>-</sup> )	18.0 <i>I</i> 25	
3511	(3/2) <sup>-</sup>	12.0 <i>I</i> 8	
3552	(7/2 <sup>-</sup> )	6.0 <i>I</i> 8	
3612?@			
3715	5/2 <sup>+</sup>	8.6 <i>I</i> 5	
3846	(3/2 <sup>-</sup> ,5/2 <sup>-</sup> )	4.9 <i>I</i> 9	
3863	(3/2,5/2) <sup>-</sup>	7.5 <i>I</i> 11	
3993	3/2 <sup>-</sup>	11.9 <i>I</i> 7	
4018	1/2 <sup>+</sup>	16.5 <i>I</i> 30	
4173	3/2 <sup>-</sup> ,5/2 <sup>-</sup>	9.5 <i>I</i> 10	
(10937)	(5/2 <sup>+</sup> )		E(level),J <sup>π</sup> : from <a href="#">1969Ir01</a> .

<sup>†</sup> From [1979Sz06](#), unless otherwise stated.

<sup>‡</sup> From Adopted Levels.

<sup>#</sup> Relative yields from [1979Sz06](#). See also [1971Um02](#) for similar values for selected levels.

@ From [1971Um02](#) only.

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 **$^{88}\text{Sr}(\text{p},\gamma)$  1979Sz06,1971Um02,1969Ir01 (continued)**

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 **$\gamma(^{89}\text{Y})$** 

$E_i$ (level)	$J_i^\pi$	$E_\gamma^{\dagger}$	$I_\gamma^{\ddagger}$	$E_f$	$J_f^\pi$	Mult.	Comments
909	$9/2^+$	909		0	$1/2^-$	M4+E5	Mult.: from Adopted Gammas.
1508	$3/2^-$	1508		0	$1/2^-$		
1745	$5/2^-$	1745		0	$1/2^-$		
2225	$5/2^+$	1316		909	$9/2^+$		
2531	$7/2^+$	1620		909	$9/2^+$		
2880	$(3/2)^-$	2880		0	$1/2^-$		
3067	$3/2^-$	3067		0	$1/2^-$		
3105	$(5/2)^-$	3105		0	$1/2^-$		
3139	$(5/2)^-$	3139		0	$1/2^-$		
3511	$(3/2)^-$	3511		0	$1/2^-$		
3612?		3612		0	$1/2^-$		
(10937)	$(5/2^+)$	9193 6	34 9	1745	$5/2^-$		
		9431 6	47 12	1508	$3/2^-$		
		10025 6	11 3	909	$9/2^+$		
		10937 6	100 25	0	$1/2^-$		

<sup>†</sup> Level-energy differences for levels below 3610. Low-energy  $\gamma$ -transitions are shown by 1971Um02. The  $\gamma$  rays from 1507 and 1745 levels are also reported by 1969Ir01.  $\gamma$  rays from the capture state at 10937 are from 1969Ir01.

<sup>‡</sup> From 1969Ir01 for the decay of capture state at 10937.

$^{88}\text{Sr}(\text{p},\gamma)$  1979Sz06,1971Um02,1969Ir01Level Scheme

Intensities: Relative photon branching from each level

