⁵⁶Fe(²⁹Si,2pnγ) 1994Ta01

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli, E. Browne	NDS 157, 260 (2019)	1-Mar-2019

E=95 MeV. Measured $\gamma\gamma$ coincidences, DCO ratios.

⁸²Sr Levels

E(level) [†]	\mathbf{J}^{π}	T _{1/2} ‡	E(level) [†]	J^{π}	$T_{1/2}^{\ddagger}$
0.0 ^{<i>a</i>}	0^{+}		4909.15 ^f 19	10-	0.36 ps + 11 - 8
573.54 ^a 9	2+		5237.3 ⁸ 4	10-	F
1175.55 ^{&} 11	2+		5307.36 ^c 18	11-	0.30 ps +10-7
1328.44 ^a 12	4+		5426.3 ^{&} 3	12+	0.33 ps + 11 - 8
1688.39 [@] 12	3+		5468.2 11		
1995.84 ^{&} 12	4+		5479.0 ^d 3	(11^{-})	
2229.17 ^a 13	6+	0.37 ps +15-11	5569.0 ^a 4	12+	0.06 ps 6
2401.42 [°] 16	3-	_	5737.9 ^b 5	(12^{+})	
2525.48 [@] 13	5+		5913.7 f 4	12-	0.27 ps +11-8
2817.30 [°] 13	5-		6366.4 ^C 3	13-	0.15 ps +8-6
2824.15 ⁸ 13	4-		6449.3 11		
2836.02 ^{&} 13	6+		6542.8 ^{&} 4	14+	0.25 ps +11-9
3006.56 [†] 15	4-		6564.7 ^d 4	(13-)	
3073.06 ^d 15	(5 ⁻)		6937.0 ^{<i>a</i>} 5	(14^{+})	0.04 ps +6-3
3086.18 ⁸ 13	6-		7066.3^{f} 5	14-	0.08 ps +5-4
3142.12 ^e 22	(5 ⁻)		7533.9 11		
3242.45 ^d 15	8+	0.24 ps +10-6	7544.7° 4	15-	0.12 ps 5
3339.36 13	6-		7788.1 ^{<i>a</i>} 5	(15 ⁻)	
3476.09 ^{^w} 24	7+		7811.3 [°] 6	16+	0.09 ps +5-4
3525.25 ^c 15	7-		8377.4 ^J 7	16-	0.14 ps 6
3565.58 ^{<i>a</i>} 15	7-		8434.6 ^{<i>a</i>} 6	(16 ⁺)	<0.18 [#] ps
3607.74 ^e 14	7-		8841.2 ^C 7	17-	0.08 ps 6
3622.18° 15	8+		9167.3 ^{<i>a</i>} 7	(17-)	
3685.66 ⁰ 17	(8 ⁺)		9237.0 [°] 7	18^{+}	0.05 ps + 7 - 4
4033.24 ^J 16	8-		9842.4 ^J 12	(18 ⁻)	<0.19 [#] ps
4142.498 15	8-		10258.0° 9	(19 ⁻)	0.08 ps +6-4
4350.28 ^{<i>a</i>} 17	10+	0.14 ps +6-4	10709.3 ^{<i>a</i>} 12	(19 ⁻)	щ
4366.06 [°] 15	9-		10871.6 ^x 9	(20^{+})	<0.21 # ps
4423.23 17	10^{+}		11379.4 ^J 16	(20 ⁻)	
4472.61 ^{<i>a</i>} 16	9-		11797.6 [°] 10	(21 ⁻)	<0.06 [#] ps
4491.6 [@] 4	9+		13005.4 ^{<i>f</i>} 19	(22 ⁻)	
4637.03 ^b 19	(10^{+})		13488.6 ^c 14	(23 ⁻)	

[†] From least-squares fit to $E\gamma$. [‡] Measured by DSAM.

[#] Effective $T_{1/2}$ not corrected for direct or side feeding.

[@] Band(A): π =+.

& Band(B): π =.

^{*a*} Band(C): π =+. ^{*b*} Band(D): π =+.

82Sr Levels (continued)

^{*c*} Band(E): π =–. Yrast odd-spin band.

^{*d*} Band(F): π =–. Second odd-spin band.

^{*e*} Band(G): π =–. Third odd-spin band.

^{*f*} Band(H): π =–. Yrast even-spin band.

^{*g*} Band(I): π =-. Second even-spin band.

$\gamma(^{82}Sr)$

Measured DCO ratios, R(DCO), are given. They are used in the J^{π} assignments. See the Adopted Levels. The DCO ratios for E2 transitions are expected to be 1, while for pure M1 or E1, states with J>10, DCO ratio should be between 0.42 and 0.52 (1994Ta01).

Eγ	Iγ	E _i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_f^{π}	Comments
213.5 3	0.3 1	4637.03	(10^{+})	4423.23	10^{+}	
255.4 3	0.1 1	3073.06	(5 ⁻)	2817.30	5-	
262.0 1	2.3 2	3086.18	6-	2824.15	4-	R(DCO) = 1.08 9
266.2 2	0.6 1	3339.36	6-	3073.06	(5^{-})	R(DCO)=0.48 6
268.8 1	1.8 2	3086.18	6-	2817.30	5-	
287.0 2	1.1 2	4637.03	(10^{+})	4350.28	10^{+}	R(DCO)=1.06 14
332.5 2	1.2 3	3339.36	6-	3006.56	4-	R(DCO)=1.12 8
359.9 <i>3</i>	1.5 5	1688.39	3+	1328.44	4+	R(DCO)=0.47<
379.7 2	1.6 4	3622.18	8+	3242.45	8+	R(DCO)=0.76 17
415.6 3	0.4 1	2817.30	5-	2401.42	3-	
422.6 3	0.4 1	2824.15	4-	2401.42	3-	R(DCO)=0.29<
438.9 2	1.0 2	3525.25	7-	3086.18	6-	R(DCO)=0.39 1
443.2 1	2.8 4	3685.66	(8^{+})	3242.45	8+	R(DCO)=1.04 11
451.9 <i>3</i>	0.5 1	3525.25	7-	3073.06	(5 ⁻)	
465.4 2	1.1 3	3607.74	7-	3142.12	(5 ⁻)	R(DCO)=0.75 1
479.3 2	1.2 4	3565.58	7-	3086.18	6-	R(DCO)=0.38 6
492.7 4	0.1 1	3565.58	7-	3073.06	(5 ⁻)	
507.9 <i>3</i>	0.7 2	4033.24	8-	3525.25	7-	
512.9 2	13.8 20	1688.39	3+	1175.55	2+	R(DCO)=1.14 8
521.5 2	3.7 5	3607.74	7-	3086.18	6-	R(DCO)=0.21 5
522.1 <i>1</i>	15.2 18	3339.36	6-	2817.30	5-	R(DCO)=0.21 1
529.8 2	0.9 <i>3</i>	2525.48	5+	1995.84	4+	R(DCO)=0.41 7
534.6 2	1.3 3	3607.74	7-	3073.06	(5 ⁻)	R(DCO)=0.89 9
534.7 2	1.0 3	4142.49	8-	3607.74	7-	
560.8 2	0.5 1	3086.18	6-	2525.48	5+	
573.5 1	100	573.54	2+	0.0	0^{+}	R(DCO)=1.04 4
577.0 2	1.2 3	4142.49	8-	3565.58	7-	
602.0 1	25 3	1175.55	2+	573.54	2+	R(DCO)=0.72 3
605.1 <i>1</i>	0.6 2	3006.56	4-	2401.42	3-	
606.9 <i>1</i>	7.1 6	2836.02	6+	2229.17	6+	R(DCO)=0.71 3
617.1 4	0.3 1	4142.49	8-	3525.25	7-	
667.5 1	9.9 15	1995.84	4+	1328.44	4+	R(DCO)=0.57 4
693.9 1	8.5 18	4033.24	8-	3339.36	6-	R(DCO) = 1.02.4
707.9 2	0.8 3	3525.25	7-	2817.30	5-	$R(DCO) = 1.02 \ 15$
748.3 2	1.0 1	3565.58	7-	2817.30	5-	$R(DCO) = 1.20 \ 13$
754.9 1	82.4	1328.44	4+	573.54	2+	R(DCO)=1.00 7
758.3 1	5.6 4	4366.06	9-	3607.74	7	R(DCO)=0.96 6
7/1.8 2	2.5 25	3607.74	·/-	2836.02	6 ⁺	R(DCO)=0.45 5
786.2 1	15.5 20	3622.18	8-	2836.02	6 ⁻	R(DCO)=0.9/ /
790.6 2	1.2 3	3607.74	1/=	2817.30	5	R(DCO)=1.23 15

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$\gamma(^{82}Sr)$ (continued)

Eγ	Iγ	E_i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_{f}^{π}	Mult. [†]	α^{\ddagger}	Comments
800.5 2	1.6 2	4366.06	9-	3565.58	7-			R(DCO)=0.96 12
801.0 <i>1</i>	19.2 23	4423.23	10^{+}	3622.18	8+			R(DCO)=0.93 6
813.9 <i>1</i>	2.4 5	3339.36	6-	2525.48	5+			R(DCO)=0.61 5
820.3 1	16.4 20	1995.84	4^{+}	1175.55	2+			R(DCO)=1.00 3
828.4 2	0.9 2	2824.15	4^{-}	1995.84	4+			R(DCO)=0.84 12
837.1 <i>1</i>	6.8 15	2525.48	5+	1688.39	3+			R(DCO)=1.14 11
840.2 1	19.4 25	2836.02	6+	1995.84	4+			R(DCO)=0.99 8
840.8 1	4.4 4	4366.06	9-	3525.25	7-			R(DCO)=0.96 6
843.6 2	0.9 2	3073.06	(5 ⁻)	2229.17	6+			R(DCO)=0.65 15
875.9 <i>1</i>	8.9 16	4909.15	10-	4033.24	8-	E2	7.94×10^{-4}	R(DCO)=1.03 4
								$\alpha(K)=0.000702 \ 10; \ \alpha(L)=7.70\times10^{-5} \ 11;$
								$\alpha(M)=1.292\times10^{-5}$ 18
								$\alpha(N) = 1.616 \times 10^{-6} 23; \alpha(O) = 1.037 \times 10^{-7} 15$
900.8.7	54.3	2229.17	6+	1328.44	4^{+}	E2	7.41×10^{-4}	R(DCO)=0.96.8
200.01	010	2227.11	0	1520.11	·	112	/	$\alpha(\mathbf{K}) = 0.000656 \ 10; \ \alpha(\mathbf{L}) = 7.18 \times 10^{-5} \ 10;$
								$a(\mathbf{M}) = 1.205 \times 10^{-5} \cdot 17$
								$u(M) = 1.203 \times 10^{-6} 17$
007.0.1	224	4470 (1	0-	2565 50	7-			$\alpha(N)=1.509\times10^{-5}22; \ \alpha(O)=9.70\times10^{-5}14$
907.01	3.2.4	44/2.61	9	3363.38	/		6 67 10-4	R(DCO)=1.19.76
941. <i>3 1</i>	9.1 /	5307.36	11	4366.06	9	E2	6.6/×10 ·	R(DCO)=1.05.8
								$\alpha(K)=0.000590\ 9;\ \alpha(L)=6.45\times10^{-5}\ 9;$
								$\alpha(M) = 1.083 \times 10^{-5} \ 16$
								$\alpha(N)=1.356\times10^{-6}$ 19; $\alpha(O)=8.73\times10^{-8}$ 13
947.2 2	2.3 2	4472.61	9-	3525.25	7-			R(DCO)=0.92 15
950.6 2	3.1 7	3476.09	7+	2525.48	5+			R(DCO)=0.74 11
951.2 2	2.9 3	4637.03	(10^{+})	3685.66	(8+)			R(DCO)=0.71 6
991 <i>1</i>	4.7 12	7533.9		6542.8	14+			R(DCO)=0.27<
1003.1 2	20.3 4	5426.3	12^{+}	4423.23	10^{+}	E2	5.75×10^{-4}	R(DCO)=1.06 9
								α (K)=0.000509 8; α (L)=5.54×10 ⁻⁵ 8;
								$\alpha(M)=9.30\times10^{-6}$ 13
								$\alpha(N)=1.166\times10^{-6}$ 17; $\alpha(O)=7.53\times10^{-8}$ 11
1004.5 3	7.4 9	5913.7	12-	4909.15	10-	E2	5.73×10^{-4}	R(DCO)=1.00 7
								$\alpha(K)=0.000507 8$; $\alpha(L)=5.52\times10^{-5} 8$;
								$\alpha(M) = 9.27 \times 10^{-6} I3$
								$\alpha(N) = 1.162 \times 10^{-6} 17$; $\alpha(O) = 7.51 \times 10^{-8} 11$
1006.2.3	725	5479.0	(11^{-})	4472.61	9-			R(DCO)=0.88.9
1010.7 2	0.2 1	3006.56	4-	1995.84	4 ⁺			R(BCC) 0.00 3
1013.4 /	32.3	3242.45	8+	2229.17	6+	E2	5.61×10^{-4}	R(DCO) = 1.00.3
1012.11	52 5	5212.15	0	222/.17	0	22	5.01/(10	$\alpha(\mathbf{K}) = 0.000497 \ 7: \alpha(\mathbf{L}) = 5.41 \times 10^{-5} \ 8:$
								$\alpha(\mathbf{M}) = 0.00049777, \alpha(\mathbf{E}) = 5.41 \times 10^{-6} 0.000497777, \alpha(\mathbf{E}) = 5.41 \times 10^{-6} 0.00047777, \alpha(\mathbf{E}) = 5.41 \times 10^{-6} 0.0007777, \alpha(\mathbf{E}) = 5.41 \times 10^{-6} 0.00077777, \alpha(\mathbf{E}) = 5.41 \times 10^{-6} 0.00077777, \alpha(\mathbf{E}) = 5.41 \times 10^{-6} 0.000777777, \alpha(\mathbf{E}) = 5.41 \times 10^{-6} 0.000777777777777777777777777777777777$
								$\alpha(N) = 5.00 \times 10^{-15}$ $\alpha(N) = 1.128 \times 10^{-6}$ 16. $\alpha(O) = 7.26 \times 10^{-8}$ 11
1015 5 2	214	4401.6	0+	2476.00	7+			$u(N) = 1.138 \times 10^{-10}, u(O) = 7.30 \times 10^{-11}$
1013.3 3	2.14	64491.0	9	5470.09	12+			R(DCO) = 0.09.9
1025 1	4.015	5468 2		J420.5 1173 73	12			R(DCO) = 0.41 < P(DCO) = 0.25 < CONTRACT (DCO) = 0.2
10457	4.2 10	J400.2	0-	2006 10	10 6-	E2	5.10×10^{-4}	R(DCO) = 0.25 < R(DCO) = 0.80.6
1030.5 1	5.99	4142.49	0	5080.18	0	E2	3.10×10	R(DCO)=0.0900
								$\alpha(\mathbf{K}) = 0.000452 /; \alpha(\mathbf{L}) = 4.91 \times 10^{-5} /;$
								$\alpha(M) = 8.25 \times 10^{-6} I2$
								$\alpha(N)=1.034\times10^{-6}$ 15; $\alpha(O)=6.69\times10^{-6}$ 10
1059.0 2	8.3 5	6366.4	13-	5307.36	11-	E2	5.07×10^{-4}	R(DCO)=1.09 7
								α (K)=0.000449 7; α (L)=4.88×10 ⁻⁵ 7;
								$\alpha(M) = 8.20 \times 10^{-6} \ 12$
								α (N)=1.028×10 ⁻⁶ 15; α (O)=6.66×10 ⁻⁸ 10
1077.4 2	1.4 3	3073.06	(5 ⁻)	1995.84	4+			R(DCO)=0.20 4
1085.7 <i>3</i>	6.0 7	6564.7	(13 ⁻)	5479.0	(11^{-})			R(DCO)=1.55 3
1094.8 <i>3</i>	0.4 1	5237.3	10-	4142.49	8-			R(DCO)=0.99 17
				C	nting - J		(factor)	at and of table)

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$\gamma(^{82}Sr)$ (continued)

Eγ	I_{γ}	E _i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_{f}^{π}	Mult. [†]	α^{\ddagger}	Comments
1100.9 4	3.9 5	5737.9	(12+)	4637.03	(10+)			R(DCO)=0.63 24
1107.9 1	15.7 17	4350.28	10^+	3242.45	8+ 6+			R(DCO) = 1.115 R(DCO) = 0.777
1110.5 2	2.3 4	1688.39	0 3 ⁺	573.54	$\frac{0}{2^+}$			R(DCO)=0.777 R(DCO)=1.093
1116.5 3	17.2 15	6542.8	14+	5426.3	12 ⁺	E2	4.52×10^{-4}	$R(DCO) = 1.06 \ 13$
								$\alpha(K)=0.000399\ 6;\ \alpha(L)=4.33\times10^{-5}\ 6;$
								$\alpha(M) = 7.27 \times 10^{-6} 11$
								$\alpha(N)=9.11\times10^{-7}$ 13; $\alpha(O)=5.91\times10^{-8}$ 9;
1120.0.2	450	5 15 0 0	(11-)	1250 20	10+			$\alpha(\text{IPF}) = 1.133 \times 10^{-6} \ 19$
1128.8 3	4.5 <i>3</i> 5 6 7	5479.0 2824-15	(11) 4 ⁻	4350.28	10 ' 3+			R(DCO)=0.99~14 R(DCO)=0.45~2
1152.6.3	384	7066 3	+ 14 ⁻	5913.7	12^{-}	E2	4.23×10^{-4}	R(DCO) = 0.45 2 R(DCO) = 1.09 5
1102.0 0	5.0 7	1000.5	11	5715.1	12	22	1.25/(10	$\alpha(K) = 0.000372 \ 6; \ \alpha(L) = 4.03 \times 10^{-5} \ 6;$
								$\alpha(M) = 6.76 \times 10^{-6} \ 10$
								$\alpha(N) = 8.49 \times 10^{-7} \ 12; \ \alpha(O) = 5.52 \times 10^{-8} \ 8;$
								α (IPF)=3.01×10 ⁻⁶ 5
1175.7 2	5.9 10	1175.55	2+	0.0	0^{+}			R(DCO)=0.84 2
1178.3 <i>3</i>	4.5 10	7544.7	15-	6366.4	13-	E2	4.06×10^{-4}	R(DCO)=0.967
								$\alpha(K) = 0.000354 5; \alpha(L) = 3.84 \times 10^{-5} 6;$
								$\alpha(M) = 0.44 \times 10^{-7} 9$ $\alpha(N) = 8.08 \times 10^{-7} 12$; $\alpha(O) = 5.26 \times 10^{-8} 8$.
								$\alpha(\text{IPF}) = 5.35 \times 10^{-6} \ 9$
1180.8 2	3.0 4	4423.23	10^{+}	3242.45	8+			R(DCO)=1.00 4
1197.1 2	1.4 4	2525.48	5+	1328.44	4+			R(DCO)=1.25 19
1218.7 3	4.8 4	5569.0	12^+	4350.28	10^{+}			$R(DCO) = 1.06 \ 11$
1223.4 3	2.8 3	7788.1 4472.61	(15)	6564.7 3242.45	(13) 8 ⁺			R(DCO)=0.91 12 R(DCO)=0.59 13
1268.4 4	7.1.5	7811.3	16 ⁺	6542.8	14 ⁺	E2	3.62×10^{-4}	R(DCO)=0.03 + 15 R(DCO)=1.03 + 8
								$\alpha(K)=0.000303 5; \alpha(L)=3.27\times10^{-5} 5;$
								$\alpha(M) = 5.48 \times 10^{-6} 8$
								$\alpha(N)=6.89\times10^{-7} \ 10; \ \alpha(O)=4.49\times10^{-8} \ 7;$
1006 0.0	10 0 15	2525.25	-	0000 15	< ±			α (IPF)=2.04×10 ⁻⁵ 3
1296.2 2	12.3 15	3525.25	17-	2229.17	6 ⁻	EO	2.52×10^{-4}	R(DCO) = 0.425
1290.5 5	5.8 10	8841.2	17	/344./	15	E2	5.55×10	R(DCO)=1.01.5 $r(K)=0.000280.4; rr(L)=2.12x10^{-5}.5;$
								$\alpha(M) = 5.23 \times 10^{-6} 8$
								$\alpha(N)=6.57\times10^{-7}$ 10: $\alpha(O)=4.29\times10^{-8}$ 6:
								α (IPF)=2.65×10 ⁻⁵ 4
1311.1 4	2.7 4	8377.4	16-	7066.3	14-	E2	3.48×10^{-4}	R(DCO)=1.10 7
								$\alpha(K)=0.000282 4; \alpha(L)=3.05\times10^{-5} 5;$
								$\alpha(M) = 5.11 \times 10^{-6} 8$
								$\alpha(N) = 6.42 \times 10^{-7} \ 9; \ \alpha(O) = 4.19 \times 10^{-6} \ 6;$
1218 2 3	102	3006 56	4-	1688 30	2+			$\alpha(\text{IPF})=2.98\times10^{-5}$ 5 P(DCO)=0.61.0
1336.5 2	7.1 9	3565.58	4 7 ⁻	2229.17	5 6 ⁺			R(DCO)=0.50.5
1368.0 3	2.9 2	6937.0	(14^+)	5569.0	12+			
1378.6 2	2.7 7	3607.74	7-	2229.17	6+			R(DCO)=0.51 10
1379.2 4	2.0 10	9167.3	$(1')^{-}$	7788.1	(15^{-})			P(DCO) = 0.97.0
1392.7 2	4.50	4637.03	$^{\circ}$ (10 ⁺)	3242.45	0 8 ⁺			R(DCO)=0.87.9 R(DCO)=1.10.11
1416.8 5	3.4 9	10258.0	(19 ⁻)	8841.2	17-			
1422.4 3	0.8 3	1995.84	4+	573.54	2+			
1425.7 4	5.0 15	9237.0	18^+	7811.3	16^+			R(DCO) = 0.97.6
1450.2 3	1.0 3	3085.66	(8.)	2229.17	0.			K(DCO)=1.01 23

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				⁵⁶ Fe	e(²⁹ Si,2]	onγ) 19	94Ta01 (conti	inued)					
	$\gamma(^{82}\mathrm{Sr})$ (continued)												
Eγ	I_{γ}	E _i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_f^{π}	Mult. [†]	α^{\ddagger}	Comments					
1465 1	1.7 7	9842.4	(18 ⁻)	8377.4	16-								
1488.8 2	23 2	2817.30	5-	1328.44	4+			R(DCO)=0.53 2					
1494.9 <i>3</i>	0.3 1	2824.15	4-	1328.44	4+			R(DCO)=0.56 7					
1497.6 3	2.0 10	8434.6	(16^{+})	6937.0	(14^{+})	E2	3.26×10^{-4}	R(DCO)=0.78 11					
								$\alpha(K)=0.000215 \ 3; \ \alpha(L)=2.31\times 10^{-5} \ 4;$					
								$\alpha(M)=3.88\times10^{-6} 6$					
								$\alpha(N)=4.87\times10^{-7}$ 7; $\alpha(O)=3.19\times10^{-8}$ 5;					
								α (IPF)=8.35×10 ⁻⁵ 12					
1537 <i>1</i>	1.0 6	11379.4	(20^{-})	9842.4	(18 ⁻)								
1539.6 5	2.5 9	11797.6	(21^{-})	10258.0	(19 ⁻)								
1542 <i>1</i>	2.0 10	10709.3	(19-)	9167.3	(17^{-})								
1626 <i>1</i>	0.8 4	13005.4	(22^{-})	11379.4	(20^{-})								
1634.6 5	1.9 9	10871.6	(20^{+})	9237.0	18^{+}								
1677.6 4	0.4 1	3006.56	4^{-}	1328.44	4^{+}			R(DCO)=0.66 15					
1691 <i>1</i>	1.8 8	13488.6	(23^{-})	11797.6	(21^{-})								
1812.8 4	1.3 3	3142.12	(5 ⁻)	1328.44	4+								
1827.0 <i>3</i>	2.0 7	2401.42	3-	573.54	2^{+}			R(DCO)=0.50 7					

 † From DCO ratios and RUL. Q multipolarities are assumed as E2 where RUL makes M2 unlikely. ‡ Additional information 1.



 $^{^{82}}_{38}{
m Sr}_{44}$





Legend





 $^{82}_{38}{\rm Sr}_{44}$



 $^{82}_{38}{
m Sr}_{44}$

⁵⁶Fe(²⁹Si,2pnγ) 1994Ta01



 $^{82}_{38}{
m Sr}_{44}$



 $^{82}_{38}{
m Sr}_{44}$