^{88}Sr(n,n),(n,γ):resonances 2006MuZX,2000Ko58

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

Neutron resonance data in ^{88}Sr(n,γ) has implications for s-process nucleosynthesis.

2006MuZX: evaluation of resonance data; data primarily from 2000Ko58.

2000Ko58: E(n)=100 eV to 950 keV. Measurements made at ORELA white neutron source facility, enriched (99.83%) ^{88}Sr metallic target. R-matrix analysis of capture and transmission data for 101 resonances from 100 eV to 350 keV and analysis of transmission data for 342 resonances between 350 and 950 keV.

1990Ka13: E=quasistellar, measured capture σ, deduced s-process implications.

1976Bo34: E(n)=2.5 keV to 400 keV, liquid scintillation detectors, iterative fit to resonance capture cross section area, determined $g \times \Gamma_n \times \Gamma_\gamma/\Gamma$ and $g \times \Gamma_n$.

1975Ma11: E(n)=50 keV to 875 keV, measured total cross sections, R matrix analysis.

Others:

1981Ko19: E(n)=0.00051, 1.26, 5.19 keV.

1965Ad04: E(n)=2.78 to 23.8 keV.

1961Bi06: E(n)=10-220 keV.

1958Go01: E(n)=7-20 keV.

Additional information 1.

All data listed here are from 2006MuZX evaluation.

^{89}Sr Levels

E(level)[†]	J$^\pi$[‡]	L	$g\Gamma_n\Gamma_\gamma/\Gamma$ (eV)[#]	Comments
S(n)-73.77? *1*	1/2$^+$	0		E(level): fictitious level. Γ_γ=(220) meV.
S(n)+12.41 *1*	(1/2)$^-$	1	0.437 *6*	$g\Gamma_n$=20.86 eV *16*, Γ_γ=446 meV *6*.
S(n)+12.91 *1*	(1/2)$^-$	1	0.0047 *8*	$g\Gamma_n$=0.0048 eV *9*, Γ_γ=(220) meV.
S(n)+13.84 *1*	1/2$^+$	0	0.081 *7*	$g\Gamma_n$=194.2 eV *6*, Γ_γ=81 meV *7*.
S(n)+18.21 *2*	(3/2)$^-$	1	0.0017 *8*	$g\Gamma_n$=0.0017 eV *8*, Γ_γ=(280) meV.
S(n)+20.81 *2*	(1/2)$^-$	1	0.064 *3*	$g\Gamma_n$=0.089 eV *5*, Γ_γ=(220) meV.
S(n)+23.61 *2*	3/2$^-$	1	0.263 *10*	$g\Gamma_n$=132.1 eV *9*, Γ_γ=132 meV *5*.
S(n)+26.98 *3*	(1/2)$^-$	1	0.0101 *22*	$g\Gamma_n$=0.010 eV *3*, Γ_γ=(220) meV.
S(n)+29.52 *3*	3/2$^-$	1	0.397 *13*	$g\Gamma_n$=137 eV *1*, Γ_γ=199 meV *7*.
S(n)+36.78 *4*	(1/2)$^-$	1	0.052 *5*	$g\Gamma_n$=0.067 eV *8*, Γ_γ=(220) meV.
S(n)+39.07 *4*	(1/2)$^-$	1	0.082 *6*	$g\Gamma_n$=3.9 eV *5*, Γ_γ=84 meV *6*.
S(n)+40.15 *4*	(1/2)$^-$	1	0.068 *6*	$g\Gamma_n$=0.099 eV *12*, Γ_γ=(220) meV.
S(n)+46.47 *5*	(1/2)$^-$	1	0.077 *7*	$g\Gamma_n$=0.118 eV *18*, Γ_γ=(220) meV.
S(n)+47.95 *5*	(3/2)$^-$	1	0.119 *9*	$g\Gamma_n$=0.151 eV *14*, Γ_γ=(280) meV.
S(n)+48.57 *5*	1/2$^+$	0	0.066 *8*	$g\Gamma_n$=8.0 eV *7*, Γ_γ=66 meV *8*.
S(n)+53.79 *5*	(1/2)$^-$	1	0.105 *10*	$g\Gamma_n$=2.2 eV *6*, Γ_γ=110 meV *11*.
S(n)+54.66 *6*	(3/2)$^-$	1	0.437 *15*	$g\Gamma_n$=38.5 eV *14*, Γ_γ=221 meV *8*.
S(n)+55.95 *6*	1/2$^-$	1	0.079 *12*	$g\Gamma_n$=146.3 eV *2*, Γ_γ=79 meV *12*.
S(n)+56.99 *6*	(3/2)$^-$	1	0.103 *8*	$g\Gamma_n$=0.126 eV *12*, Γ_γ=(280) meV.
S(n)+58.90 *6*	(1/2$^+$)	(0)	0.023 *5*	$g\Gamma_n$=2.0 eV *6*, Γ_γ=23 meV *5*.
S(n)+65.48 *7*	(1/2)$^-$	1	0.060 *7*	$g\Gamma_n$=0.083 eV *14*, Γ_γ=(220) meV.
S(n)+73.77 *7*	(3/2)$^-$	1	0.078 *10*	$g\Gamma_n$=0.09 eV *1*, Γ_γ=(280) meV.
S(n)+75.50 *8*	(3/2)$^-$	1	0.224 *13*	$g\Gamma_n$=0.36 eV *10*, Γ_γ=0.30 eV *13*.
S(n)+76.89 *8*	(3/2)$^-$	1	0.098 *12*	$g\Gamma_n$=0.120 eV *18*, Γ_γ=(280) meV.
S(n)+88.56 *9*	3/2$^-$	1	0.197 *22*	$g\Gamma_n$=422 eV *6*, Γ_γ=99 meV *11*.
S(n)+91.34 *9*	1/2$^+$	0	0.27 *3*	$g\Gamma_n$=953 eV *13*, Γ_γ=0.27 eV *3*.
S(n)+93.08 *9*	(3/2)$^-$	1	0.111 *14*	$g\Gamma_n$=0.140 eV *21*, Γ_γ=(280) meV.
S(n)+95.37 *10*	3/2$^-$	1	0.45 *4*	$g\Gamma_n$=448 eV *8*, Γ_γ=227 meV *20*.
S(n)+101.95 *10*	(3/2)$^-$	1	0.100 *16*	$g\Gamma_n$=0.120 eV *24*, Γ_γ=(280) meV.
S(n)+105.46 *10*	1/2$^+$	0	0.31 *3*	$g\Gamma_n$=256 eV *7*, Γ_γ=0.31 eV *3*.

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^{88}Sr(n,n),(n,γ):resonances 2006MuZX,2000Ko58 (continued)

^{89}Sr Levels (continued)

E(level)[†]	J^{π}[‡]	L	$g\Gamma_n\Gamma_\gamma/\Gamma$ (eV)[#]	Comments
S(n)+107.45 *10*	(3/2)$^-$	1	0.114 *16*	$g\Gamma_n$=0.140 eV *24*, Γ_γ=(280) meV.
S(n)+110.15 *11*	1/2$^-$	1	0.15 *3*	$g\Gamma_n$=285 eV *8*, Γ_γ=0.15 eV *3*.
S(n)+115.92 *12*	(3/2)$^-$	1	0.118 *19*	$g\Gamma_n$=0.15 eV *3*, Γ_γ=(280) meV.
S(n)+117.15 *12*	(1/2)$^-$	1	0.064 *17*	$g\Gamma_n$=0.09 eV *3*, Γ_γ=(220) meV.
S(n)+120.10 *12*	(1/2)$^-$	1	0.046 *16*	$g\Gamma_n$=0.06 eV *3*, Γ_γ=(220) meV.
S(n)+122.29 *12*	3/2$^-$	1	1.25 *8*	$g\Gamma_n$=3.111 keV *23*, Γ_γ=0.63 eV *4*.
S(n)+125.95 *13*	(3/2)$^-$	1	0.105 *19*	$g\Gamma_n$=0.13 eV *3*, Γ_γ=(280) meV.
S(n)+126.40 *13*	(3/2)$^-$	1	0.141 *22*	$g\Gamma_n$=0.19 eV *4*, Γ_γ=(280) meV.
S(n)+127.90 *13*	(3/2)$^-$	1	0.20 *3*	$g\Gamma_n$=0.30 eV *6*, Γ_γ=(280) meV.
S(n)+132.85 *13*	(3/2)$^-$	1	0.119 *23*	$g\Gamma_n$=0.15 eV *4*, Γ_γ=(280) meV.
S(n)+137.35 *14*	(3/2)$^-$	1	0.099 *21*	$g\Gamma_n$=0.12 eV *3*, Γ_γ=(280) meV.
S(n)+141.68 *14*	1/2$^+$	0	0.08 *3*	$g\Gamma_n$=501 eV *13*, Γ_γ=0.08 eV *3*.
S(n)+147.30 *15*	(3/2)$^-$	1	0.161 *23*	$g\Gamma_n$=0.23 eV *4*, Γ_γ=(280) meV.
S(n)+150.20 *15*	(3/2)$^-$	1	0.17 *4*	$g\Gamma_n$=43 eV *7*, Γ_γ=84 meV *20*.
S(n)+150.87 *15*	1/2$^-$	1	0.70 *9*	$g\Gamma_n$=1.205 keV *24*, Γ_γ=0.70 eV *9*.
S(n)+153.89 *15*	3/2$^-$	1	0.17 *4*	$g\Gamma_n$=558 eV *12*, Γ_γ=85 meV *21*.
S(n)+156.00 *16*	(3/2)$^-$	1	0.142 *25*	$g\Gamma_n$=0.19 eV *4*, Γ_γ=(280) meV.
S(n)+160.85 *16*	(3/2)$^-$	1	0.16 *3*	$g\Gamma_n$=0.23 eV *7*, Γ_γ=(280) meV.
S(n)+169.85 *10*	(3/2)$^-$	1	0.09 *3*	$g\Gamma_n$=0.11 eV *4*, Γ_γ=(280) meV.
S(n)+170.38 *17*	(3/2)$^-$	1	0.51 *5*	$g\Gamma_n$=210.0 eV *3*, Γ_γ=0.34 eV *4*.
S(n)+173.38 *17*	3/2$^-$	1	0.18 *5*	$g\Gamma_n$=663 eV *5*, Γ_γ=91 meV *24*.
S(n)+177.85 *18*	(3/2)$^-$	1	0.37 *4*	$g\Gamma_n$=6.3 eV *11*, Γ_γ=196 meV *21*.
S(n)+181.06 *18*	1/2$^+$	0	0.10 *4*	$g\Gamma_n$=176 eV *3*, Γ_γ=0.10 eV *4*.
S(n)+186.87 *19*	(1/2)$^-$	1	0.11 *3*	$g\Gamma_n$=4.9 eV *5*, Γ_γ=0.11 eV *4*.
S(n)+187.62 *19*	(3/2)$^-$	1	0.38 *5*	$g\Gamma_n$=5.4 eV *5*, Γ_γ=0.20 eV *3*.
S(n)+192.85 *19*	(3/2)$^-$	1	0.15 *3*	$g\Gamma_n$=0.20 eV *6*, Γ_γ=(280) meV.
S(n)+194.81 *20*	1/2$^+$	0	0.17 *5*	$g\Gamma_n$=47 eV *3*, Γ_γ=0.17 eV *5*.
S(n)+195.23 *20*	3/2$^-$	1	0.35 *9*	$g\Gamma_n$=2.215 keV *9*, Γ_γ=0.17 eV *4*.
S(n)+200.67 *20*	1/2$^-$	1	0.08 *3*	$g\Gamma_n$=425 eV *5*, Γ_γ=0.08 eV *3*.
S(n)+202.53 *20*	(1/2)$^-$	1	0.080 *23*	$g\Gamma_n$=16 eV *2*, Γ_γ=81 meV *23*.
S(n)+204.21 *20*	3/2$^-$	1	0.48 *4*	$g\Gamma_n$=151 eV *3*, Γ_γ=240 meV *22*.
S(n)+212.13 *21*	(3/2)$^-$	1	0.22 *3*	$g\Gamma_n$=0.37 eV *8*, Γ_γ=(280) meV.
S(n)+214.29 *21*	3/2$^-$	1	0.38 *5*	$g\Gamma_n$=1.000 keV *6*, Γ_γ=191 meV *24*.
S(n)+224.76 *23*	(3/2)$^-$	1	0.28 *4*	$g\Gamma_n$=3.8 eV *5*, Γ_γ=153 meV *14*.
S(n)+225.19 *23*	(1/2)$^-$	1	0.06 *3*	$g\Gamma_n$=8.5 eV *8*, Γ_γ=58 meV *26*.
S(n)+227.69 *23*	1/2$^-$	1	0.42 *5*	$g\Gamma_n$=365 eV *7*, Γ_γ=0.42 eV *6*.
S(n)+228.29 *23*	3/2$^-$	1	0.19 *7*	$g\Gamma_n$=1.885 keV *10*, Γ_γ=0.09 eV *3*.
S(n)+230.20 *23*	1/2$^+$	0	0.42 *7*	$g\Gamma_n$=1.452 keV *10*, Γ_γ=0.42 eV *7*.
S(n)+232.93 *23*	(1/2)$^-$	1	0.13 *3*	$g\Gamma_n$=0.9 eV *5*, Γ_γ=0.15 eV *3*.
S(n)+235.76 *24*	(1/2)$^-$	1	0.056 *23*	$g\Gamma_n$=15.7 eV *11*, Γ_γ=56 meV *23*.
S(n)+241.08 *24*	(1/2)$^-$	1	0.12 *3*	$g\Gamma_n$=10.2 eV *9*, Γ_γ=0.12 eV *3*.
S(n)+245.11 *25*	(1/2)$^-$	1	0.27 *4*	$g\Gamma_n$=9.3 eV *15*, Γ_γ=0.28 eV *5*.
S(n)+246.06 *25*	(1/2)$^-$	1	0.12 *4*	$g\Gamma_n$=10.9 eV *19*, Γ_γ=0.13 eV *4*.
S(n)+247.03 *25*	3/2$^-$	1	1.14 *9*	$g\Gamma_n$=3.620 keV *11*, Γ_γ=0.52 eV *5*.
S(n)+252.02 *25*	(3/2)$^-$	1	0.15 *3*	$g\Gamma_n$=0.20 eV *5*, Γ_γ=(280) meV.
S(n)+256.2 *3*	(1/2)$^-$	1	0.19 *4*	$g\Gamma_n$=29.0 eV *15*, Γ_γ=0.19 eV *4*.
S(n)+258.7 *3*	1/2$^+$	0	0.34 *9*	$g\Gamma_n$=476 eV *5*, Γ_γ=0.34 eV *9*.
S(n)+259.0 *3*	3/2$^-$	1	0.63 *9*	$g\Gamma_n$=48.1 eV *21*, Γ_γ=0.32 eV *4*.
S(n)+265.1 *3*	1/2$^+$	0	0.10 *3*	$g\Gamma_n$=154 eV *3*, Γ_γ=0.10 eV *3*.
S(n)+266.5 *3*	3/2$^+$	2	0.24 *7*	$g\Gamma_n$=51 eV *2*, Γ_γ=0.12 eV *4*.
S(n)+268.0 *3*	(1/2)$^-$	1	0.07 *3*	$g\Gamma_n$=7 eV *2*, Γ_γ=0.067 eV *33*.
S(n)+270.6 *3*	(3/2)$^-$	1	0.14 *3*	$g\Gamma_n$=0.19 eV *5*, Γ_γ=(280) meV.
S(n)+277.6 *3*	(1/2)$^-$	1	0.57 *6*	$g\Gamma_n$=7.1 eV *15*, Γ_γ=0.62 eV *7*.
S(n)+278.8 *3*	3/2$^-$	1	0.26 *5*	$g\Gamma_n$=72 eV *3*, Γ_γ=128 meV *24*.
S(n)+281.6 *3*	(3/2)$^-$	1	0.32 *8*	$g\Gamma_n$=0.8 eV *3*, Γ_γ=0.28 eV *8*.
S(n)+287.5 *3*	(3/2)$^-$	1	1.24 *22*	$g\Gamma_n$=15 eV *7*, Γ_γ=0.68 eV *13*.

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^{88}Sr(n,n),(n,γ):resonances 2006MuZX,2000Ko58 (continued)

^{89}Sr Levels (continued)

E(level)[†]	J^{π}[‡]	L	$g\Gamma_n\Gamma_\gamma/\Gamma$ (eV)[#]	Comments
S(n)+289.5 *3*	3/2⁻	1	1.44 *19*	$g\Gamma_n$=24.93 keV *3*, Γ_γ=0.72 eV *10*.
S(n)+297.8 *3*	(1/2)⁻	1	0.07 *3*	$g\Gamma_n$=11.8 eV *18*, Γ_γ=0.07 eV *3*.
S(n)+298.0 *3*	(1/2)⁻	1	0.054 *21*	$g\Gamma_n$=12.5 eV *17*, Γ_γ=54 meV *21*.
S(n)+302.1 *3*	1/2⁺	0	0.30 *7*	$g\Gamma_n$=233 eV *4*, Γ_γ=0.30 eV *7*.
S(n)+303.0 *3*	3/2⁻	1	0.96 *12*	$g\Gamma_n$=2.517 keV *9*, Γ_γ=0.48 eV *6*.
S(n)+308.1 *3*	(1/2)⁻	1	0.07 *3*	$g\Gamma_n$=96.5 eV *25*, Γ_γ=0.07 eV *3*.
S(n)+311.0 *3*	(1/2)⁻	1	0.27 *5*	$g\Gamma_n$=5.8 eV *12*, Γ_γ=0.29 meV *5*.
S(n)+318.8 *3*	1/2⁺	0	0.18 *4*	$g\Gamma_n$=21.2 eV *16*, Γ_γ=0.18 eV *4*.
S(n)+322.7 *3*	1/2⁻	1	0.18 *4*	$g\Gamma_n$=184 eV *5*, Γ_γ=0.18 meV *4*.
S(n)+325.3 *3*	3/2⁻	1	1.14 *19*	$g\Gamma_n$=22.082 keV *29*, Γ_γ=0.57 eV *10*.
S(n)+329.4 *3*	3/2⁺	2	0.05 *3*	$g\Gamma_n$=211 eV *6*, Γ_γ=27 meV *6*.
S(n)+330.0 *3*	(1/2)⁻	1	0.029 *18*	$g\Gamma_n$=23.4 eV *30*, Γ_γ=29 meV *18*.
S(n)+334.3 *3*	1/2⁻	1	0.09 *3*	$g\Gamma_n$=90 eV *3*, Γ_γ=0.09 eV *3*.
S(n)+340.1 *3*	(1/2⁺)	(0)	0.10 *4*	$g\Gamma_n$=3.2 eV *12*, Γ_γ=0.10 eV *5*.
S(n)+344.3 *3*	3/2⁻	1	0.18 *7*	$g\Gamma_n$=4.053 keV *12*, Γ_γ=0.09 eV *3*.
S(n)+347.3 *4*	1/2⁺	0	0.064 *23*	$g\Gamma_n$=202 eV *4*, Γ_γ=64 meV *23*.
S(n)+350.9 *4*	1/2⁻	1		$g\Gamma_n$=47.7 eV *25*.
S(n)+353.6 *4*	1/2⁻	1		$g\Gamma_n$=17.1 eV *22*.
S(n)+355.0 *4*	1/2⁻	1		$g\Gamma_n$=473 eV *5*.
S(n)+359.0 *4*	1/2⁻	1		$g\Gamma_n$=44.7 eV *22*.
S(n)+364.9 *4*	3/2⁻	1		$g\Gamma_n$=990 eV *6*.
S(n)+368.2 *4*	1/2⁻	1		$g\Gamma_n$=158 eV *5*.
S(n)+368.3 *4*	3/2⁻	1		$g\Gamma_n$=141 eV *3*.
S(n)+370.2 *4*	3/2⁻	1		$g\Gamma_n$=33.5 eV *22*.
S(n)+373.6 *4*	3/2⁻	1		$g\Gamma_n$=28.1 eV *21*.
S(n)+377.7 *4*	3/2⁻	1		$g\Gamma_n$=155 eV *3*.
S(n)+379.5 *4*	3/2⁻	1		$g\Gamma_n$=68 eV *3*.
S(n)+382.3 *4*	3/2⁻	1		$g\Gamma_n$=706 eV *6*.
S(n)+385.9 *4*	1/2⁻	1		$g\Gamma_n$=938 eV *11*.
S(n)+386.1 *4*	3/2⁻	1		$g\Gamma_n$=4395 eV *14*.
S(n)+392.2 *4*	1/2⁺	0		$g\Gamma_n$=24.4 eV *18*.
S(n)+400.6 *4*	3/2⁻	1		$g\Gamma_n$=333 eV *4*.
S(n)+404.0 *4*	1/2⁻	1		$g\Gamma_n$=6158 eV *23*.
S(n)+408.5 *4*	(5/2⁻)	(3)		$g\Gamma_n$=32 eV *3*.
S(n)+409.1 *4*	(3/2⁺)	(2)		$g\Gamma_n$=39 eV *3*.
S(n)+409.3 *4*	(5/2⁻)	(3)		$g\Gamma_n$=117 eV *4*.
S(n)+409.8 *4*	(5/2⁺)	(2)		$g\Gamma_n$=10.9 eV *22*.
S(n)+410.1 *4*	3/2⁻	1		$g\Gamma_n$=358 eV *5*.
S(n)+418.9 *4*	1/2⁺	0		$g\Gamma_n$=479 eV *6*.
S(n)+422.5 *4*	(3/2⁺)	(2)		$g\Gamma_n$=1913 eV *13*.
S(n)+422.6 *4*	1/2⁺	0		$g\Gamma_n$=22 eV *3*.
S(n)+422.9 *4*	1/2⁻	1		$g\Gamma_n$=109 eV *6*.
S(n)+423.3 *4*	1/2⁻	1		$g\Gamma_n$=95 eV *4*.
S(n)+426.9 *4*	(3/2⁺)	(2)		$g\Gamma_n$=64 eV *3*.
S(n)+430.6 *4*	(5/2⁻)	(3)		$g\Gamma_n$=30 eV *4*.
S(n)+430.7 *4*	3/2⁻	1		$g\Gamma_n$=1136 eV *8*.
S(n)+432.9 *4*	(3/2⁺)	(2)		$g\Gamma_n$=115 eV *3*.
S(n)+436.1 *4*	1/2⁻	1		$g\Gamma_n$=375 eV *7*.
S(n)+437.9 *4*	1/2⁻	1		$g\Gamma_n$=14 eV *3*.
S(n)+441.3 *4*	1/2⁺	0		$g\Gamma_n$=719 eV *10*.
S(n)+441.7 *4*	3/2⁻	1		$g\Gamma_n$=16.403 keV *33*.
S(n)+446.3 *5*	1/2⁻	1		$g\Gamma_n$=119 eV *5*.
S(n)+447.0 *5*	1/2⁻	1		$g\Gamma_n$=67 eV *4*.
S(n)+455.8 *5*	1/2⁺	0		$g\Gamma_n$=6.8 eV *17*.
S(n)+458.4 *5*	(3/2⁺)	(2)		$g\Gamma_n$=230 eV *4*.
S(n)+460.1 *5*	1/2⁺	0		$g\Gamma_n$=20.1 eV *21*.

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^{88}Sr(n,n),(n,γ):resonances 2006MuZX,2000Ko58 (continued)

^{89}Sr Levels (continued)

E(level)†	J^{π}‡	L	Comments
S(n)+466.1 *5*	1/2⁻	1	$g\Gamma_n$=38 eV *3*.
S(n)+469.4 *5*	(3/2⁺)	(2)	$g\Gamma_n$=411 eV *5*.
S(n)+475.5 *5*	3/2⁻	1	$g\Gamma_n$=899 eV *7*.
S(n)+477.1 *5*	(5/2⁺)	(2)	$g\Gamma_n$=66 eV *4*.
S(n)+477.6 *5*	1/2⁺	0	$g\Gamma_n$=374 eV *8*.
S(n)+480.9 *5*	(3/2⁺)	(2)	$g\Gamma_n$=54 eV *3*.
S(n)+485.3 *5*	1/2⁻	1	$g\Gamma_n$=196 eV *6*.
S(n)+486.7 *5*	(5/2⁻)	(3)	$g\Gamma_n$=254 eV *8*.
S(n)+487.0 *5*	1/2⁻	1	$g\Gamma_n$=133 eV *9*.
S(n)+487.2 *5*	(5/2⁻)	(3)	$g\Gamma_n$=35 eV *4*.
S(n)+487.5 *5*	(3/2⁺)	2	$g\Gamma_n$=15 eV *3*.
S(n)+487.6 *5*	3/2⁻	1	$g\Gamma_n$=3688 eV *15*.
S(n)+491.4 *5*	(3/2⁺)	(2)	$g\Gamma_n$=65 eV *4*.
S(n)+492.8 *5*	3/2⁻	1	$g\Gamma_n$=3258 eV *14*.
S(n)+494.8 *5*	(3/2⁺)	(2)	$g\Gamma_n$=54 eV *3*.
S(n)+497.3 *5*	(3/2⁺)	(2)	$g\Gamma_n$=33 eV *3*.
S(n)+502.5 *5*	(3/2⁻)	(1)	$g\Gamma_n$=2762 eV *14*.
S(n)+505.9 *5*	(5/2⁺)	(2)	$g\Gamma_n$=13 eV *3*.
S(n)+506.1 *5*	1/2⁻	1	$g\Gamma_n$=3.70 keV *3*.
S(n)+506.5 *5*	(3/2⁺)	(2)	$g\Gamma_n$=11.5 eV *23*.
S(n)+506.9 *5*	(5/2⁻)	(3)	$g\Gamma_n$=16 eV *3*.
S(n)+507.4 *5*	(5/2⁺)	(2)	$g\Gamma_n$=16 eV *4*.
S(n)+509.3 *5*	(5/2⁻)	(3)	$g\Gamma_n$=25 eV *3*.
S(n)+513.8 *5*	(3/2⁺)	(2)	$g\Gamma_n$=136 eV *5*.
S(n)+516.5 *5*	1/2⁺	0	$g\Gamma_n$=584 eV *10*.
S(n)+520.9 *5*	3/2⁻	1	$g\Gamma_n$=43.01 keV *7*.
S(n)+521.0 *5*	1/2⁻	1	$g\Gamma_n$=14.57 keV *85*.
S(n)+522.2 *5*	(5/2⁻)	(3)	$g\Gamma_n$=102 eV *7*.
S(n)+524.9 *5*	3/2⁻	1	$g\Gamma_n$=1.15 keV *3*.
S(n)+528.8 *5*	(7/2⁻)	(3)	$g\Gamma_n$=240 eV *6*.
S(n)+530.6 *5*	(5/2⁻)	(3)	$g\Gamma_n$=115 eV *5*.
S(n)+531.8 *5*	(3/2⁺)	(2)	$g\Gamma_n$=8 eV *3*.
S(n)+532.9 *5*	(5/2⁻)	(3)	$g\Gamma_n$=236 eV *5*.
S(n)+533.7 *5*	(7/2⁻)	(3)	$g\Gamma_n$=112 eV *5*.
S(n)+535.3 *5*	3/2⁻	1	$g\Gamma_n$=2203 eV *14*.
S(n)+536.7 *5*	1/2⁻	1	$g\Gamma_n$=11.00 keV *7*.
S(n)+542.4 *5*	3/2⁻	1	$g\Gamma_n$=3048 eV *20*.
S(n)+542.6 *5*	(5/2⁺)	(2)	$g\Gamma_n$=49 eV *6*.
S(n)+544.6 *5*	(5/2⁻)	(3)	$g\Gamma_n$=27 eV *4*.
S(n)+545.5 *6*	3/2⁻	1	$g\Gamma_n$=2.182 keV *15*.
S(n)+551.4 *6*	1/2⁺	0	$g\Gamma_n$=51.5 eV *30*.
S(n)+553.2 *6*	3/2⁻	1	$g\Gamma_n$=1.918 keV *11*.
S(n)+563.4 *6*	3/2⁻	1	$g\Gamma_n$=14.88 eV *3*.
S(n)+564.5 *6*	(5/2⁺)	(2)	$g\Gamma_n$=85 eV *5*.
S(n)+570.6 *6*	3/2⁺	2	$g\Gamma_n$=16 eV *6*.
S(n)+571.1 *6*	(5/2⁺)	(2)	$g\Gamma_n$=383 eV *3*.
S(n)+571.2 *6*	1/2⁻	1	$g\Gamma_n$=1.759 keV *16*.
S(n)+574.7 *6*	7/2⁻	3	$g\Gamma_n$=77 eV *4*.
S(n)+575.2 *6*	(5/2⁻)	(3)	$g\Gamma_n$=106 eV *5*.
S(n)+581.6 *6*	3/2⁻	1	$g\Gamma_n$=7.20 keV *3*.
S(n)+584.8 *6*	1/2⁺	0	$g\Gamma_n$=3.13 keV *3*.
S(n)+585.7 *6*	(3/2⁺)	(2)	$g\Gamma_n$=178 eV *6*.
S(n)+589.5 *6*	3/2⁻	1	$g\Gamma_n$=23.37 keV *5*.
S(n)+591.9 *6*	3/2⁻	1	$g\Gamma_n$=260 eV *21*.
S(n)+592.3 *6*	(5/2⁻)	(3)	$g\Gamma_n$=39 eV *5*.
S(n)+593.4 *6*	(3/2⁺)	(2)	$g\Gamma_n$=183 eV *6*.

Continued on next page (footnotes at end of table)

^{88}Sr(n,n),(n,γ):resonances 2006MuZX,2000Ko58 (continued)

^{89}Sr Levels (continued)

E(level)†	J^{π}‡	L	Comments
S(n)+596.1 *6*	(3/2+)	(2)	$g\Gamma_n$=183 eV *6*.
S(n)+598.9 *6*	(5/2−)	(3)	$g\Gamma_n$=67 eV *6*.
S(n)+600.4 *6*	(7/2−)	(3)	$g\Gamma_n$=51 eV *5*.
S(n)+603.1 *6*	(3/2−)	(1)	$g\Gamma_n$=43 eV *4*.
S(n)+604.7 *6*	(7/2−)	(3)	$g\Gamma_n$=40 eV *6*.
S(n)+605.9 *6*	1/2+	0	$g\Gamma_n$=54 eV *4*.
S(n)+611.0 *6*	(3/2+)	(2)	$g\Gamma_n$=48 eV *4*.
S(n)+611.9 *6*	(3/2+)	(2)	$g\Gamma_n$=49 eV *4*.
S(n)+613.5 *6*	(5/2−)	(3)	$g\Gamma_n$=149 eV *5*.
S(n)+615.3 *6*	1/2+	0	$g\Gamma_n$=470 eV *10*.
S(n)+615.8 *6*	(3/2+)	(2)	$g\Gamma_n$=103 eV *6*.
S(n)+617.0 *6*	1/2−	1	$g\Gamma_n$=5.07 keV *4*.
S(n)+618.5 *6*	(7/2−)	(3)	$g\Gamma_n$=168 eV *7*.
S(n)+619.6 *6*	(5/2−)	(3)	$g\Gamma_n$=58 eV *7*.
S(n)+620.9 *6*	(3/2+)	(2)	$g\Gamma_n$=29 eV *4*.
S(n)+621.2 *6*	(1/2−)	(1)	$g\Gamma_n$=157 eV *6*.
S(n)+622.0 *6*	(1/2−)	(1)	$g\Gamma_n$=221 eV *8*.
S(n)+623.2 *6*	(1/2−)	(1)	$g\Gamma_n$=60 eV *7*.
S(n)+623.6 *6*	(3/2+)	(2)	$g\Gamma_n$=346 eV *10*.
S(n)+625.7 *6*	(5/2−)	(3)	$g\Gamma_n$=22 eV *4*.
S(n)+627.0 *6*	(5/2−)	(3)	$g\Gamma_n$=170 eV *16*.
S(n)+627.1 *6*	(5/2−)	(3)	$g\Gamma_n$=188 eV *10*.
S(n)+628.2 *6*	(3/2+)	(2)	$g\Gamma_n$=317 eV *6*.
S(n)+632.7 *6*	1/2+	0	$g\Gamma_n$=339 eV *7*.
S(n)+637.6 *6*	(5/2−)	(3)	$g\Gamma_n$=116 eV *6*.
S(n)+638.2 *6*	(5/2−)	(3)	$g\Gamma_n$=194 eV *6*.
S(n)+639.1 *6*	(7/2−)	(3)	$g\Gamma_n$=83 eV *9*.
S(n)+639.3 *6*	(7/2−)	(3)	$g\Gamma_n$=280 eV *10*.
S(n)+639.5 *6*	3/2−	1	$g\Gamma_n$=12.43 keV *4*.
S(n)+643.9 *6*	1/2−	1	$g\Gamma_n$=395 eV *11*.
S(n)+652.1 *7*	(5/2−)	(3)	$g\Gamma_n$=87 eV *6*.
S(n)+652.4 *7*	(5/2−)	(3)	$g\Gamma_n$=109 eV *6*.
S(n)+655.8 *7*	1/2+	0	$g\Gamma_n$=42 eV *4*.
S(n)+656.6 *7*	(5/2−)	(3)	$g\Gamma_n$=31 eV *4*.
S(n)+659.8 *7*	1/2−	1	$g\Gamma_n$=304 eV *10*.
S(n)+660.7 *7*	1/2−	1	$g\Gamma_n$=140 eV *7*.
S(n)+662.1 *7*	3/2−	1	$g\Gamma_n$=2.952 keV *21*.
S(n)+664.6 *7*	(5/2−)	(3)	$g\Gamma_n$=116 eV *6*.
S(n)+666.3 *7*	3/2−	1	$g\Gamma_n$=13.91 keV *5*.
S(n)+670.7 *7*	1/2+	0	$g\Gamma_n$=336 eV *12*.
S(n)+671.2 *7*	(7/2−)	(3)	$g\Gamma_n$=131 eV *7*.
S(n)+672.6 *7*	(7/2−)	(3)	$g\Gamma_n$=47 eV *5*.
S(n)+673.1 *7*	(5/2−)	(3)	$g\Gamma_n$=44 eV *5*.
S(n)+673.9 *7*	(7/2−)	(3)	$g\Gamma_n$=50 eV *5*.
S(n)+674.4 *7*	(5/2−)	(3)	$g\Gamma_n$=183 eV *6*.
S(n)+676.2 *7*	(5/2−)	(3)	$g\Gamma_n$=142 eV *5*.
S(n)+676.8 *7*	(7/2−)	(3)	$g\Gamma_n$=40 eV *5*.
S(n)+677.5 *7*	(5/2−)	(3)	$g\Gamma_n$=51 eV *5*.
S(n)+678.1 *7*	(5/2−)	(3)	$g\Gamma_n$=50 eV *5*.
S(n)+678.6 *7*	(7/2−)	(3)	$g\Gamma_n$=273 eV *7*.
S(n)+680.2 *7*	3/2−	1	$g\Gamma_n$=8.30 keV *5*.
S(n)+681.2 *7*	(7/2−)	(3)	$g\Gamma_n$=135 eV *9*.
S(n)+681.5 *7*	(5/2−)	(3)	$g\Gamma_n$=157 eV *8*.
S(n)+682.2 *7*	(5/2−)	(3)	$g\Gamma_n$=60 eV *7*.
S(n)+682.9 *7*	(5/2−)	(3)	$g\Gamma_n$=40 eV *6*.
S(n)+684.7 *7*	(7/2−)	(3)	$g\Gamma_n$=283 eV *7*.

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^{88}Sr(n,n),(n,γ):resonances 2006MuZX,2000Ko58 (continued)

^{89}Sr Levels (continued)

E(level)†	J^{π}‡	L	Comments
S(n)+686.4 *7*	1/2+	0	$g\Gamma_n$=22 eV *4*.
S(n)+687.3 *7*	1/2+	0	$g\Gamma_n$=30 eV *4*.
S(n)+687.8 *7*	1/2+	0	$g\Gamma_n$=29 eV *4*.
S(n)+688.3 *7*	(5/2−)	(3)	$g\Gamma_n$=15 eV *4*.
S(n)+689.9 *7*	(7/2−)	(3)	$g\Gamma_n$=83 eV *6*.
S(n)+693.4 *7*	1/2−	1	$g\Gamma_n$=1.04 keV *7*.
S(n)+693.5 *7*	1/2+	0	$g\Gamma_n$=58 eV *8*.
S(n)+694.3 *7*	(7/2−)	(3)	$g\Gamma_n$=201 eV *13*.
S(n)+694.6 *7*	(7/2−)	(3)	$g\Gamma_n$=0.32 keV *3*.
S(n)+694.9 *7*	(5/2−)	(3)	$g\Gamma_n$=324 eV *21*.
S(n)+695.0 *7*	(5/2+)	(2)	$g\Gamma_n$=140 eV *16*.
S(n)+695.8 *7*	1/2+	0	$g\Gamma_n$=28 eV *4*.
S(n)+696.9 *7*	1/2−	1	$g\Gamma_n$=12.07 keV *9*.
S(n)+697.0 *7*	(7/2−)	(3)	$g\Gamma_n$=40 eV *6*.
S(n)+697.4 *7*	(5/2−)	(3)	$g\Gamma_n$=69 eV *6*.
S(n)+697.8 *7*	(7/2−)	(3)	$g\Gamma_n$=98 eV *8*.
S(n)+698.2 *7*	(7/2−)	(3)	$g\Gamma_n$=139 eV *8*.
S(n)+698.7 *7*	(5/2−)	(3)	$g\Gamma_n$=90 eV *8*.
S(n)+699.0 *7*	3/2−	1	$g\Gamma_n$=3.05 keV *3*.
S(n)+699.4 *7*	1/2+	0	$g\Gamma_n$=52 eV *7*.
S(n)+700.1 *7*	(5/2−)	(3)	$g\Gamma_n$=56 eV *9*.
S(n)+704.2 *7*	1/2+	0	$g\Gamma_n$=34 eV *5*.
S(n)+704.8 *7*	(5/2−)	(3)	$g\Gamma_n$=45 eV *6*.
S(n)+705.5 *7*	(5/2−)	(3)	$g\Gamma_n$=44 eV *6*.
S(n)+706.1 *7*	(5/2−)	(3)	$g\Gamma_n$=335 eV *8*.
S(n)+708.7 *7*	3/2+	2	$g\Gamma_n$=7.39 keV *4*.
S(n)+709.7 *7*	(7/2−)	(3)	$g\Gamma_n$=71 eV *7*.
S(n)+710.4 *7*	(5/2−)	(3)	$g\Gamma_n$=93 eV *7*.
S(n)+714.6 *7*	(5/2−)	(3)	$g\Gamma_n$=131 eV *6*.
S(n)+715.9 *7*	1/2−	1	$g\Gamma_n$=3.06 eV *3*.
S(n)+717.0 *7*	(5/2−)	(3)	$g\Gamma_n$=239 eV *9*.
S(n)+717.1 *7*	1/2+	0	$g\Gamma_n$=490 eV *16*.
S(n)+719.1 *7*	(5/2−)	(3)	$g\Gamma_n$=144 eV *9*.
S(n)+719.5 *7*	3/2−	1	$g\Gamma_n$=519 eV *20*.
S(n)+722.5 *7*	(5/2+)	(2)	$g\Gamma_n$=154.4 eV *7*.
S(n)+723.1 *7*	3/2−	1	$g\Gamma_n$=4.633 keV *27*.
S(n)+724.4 *7*	(5/2−)	(3)	$g\Gamma_n$=67 eV *6*.
S(n)+726.9 *7*	(5/2−)	(3)	$g\Gamma_n$=40 eV *6*.
S(n)+731.1 *7*	3/2−	1	$g\Gamma_n$=15.09 keV *4*.
S(n)+731.6 *7*	(5/2−)	(3)	$g\Gamma_n$=113 eV *7*.
S(n)+734.9 *7*	(5/2−)	(3)	$g\Gamma_n$=54 eV *6*.
S(n)+739.5 *7*	3/2−	1	$g\Gamma_n$=6.43 keV *3*.
S(n)+739.7 *7*	1/2−	1	$g\Gamma_n$=373 eV *12*.
S(n)+743.8 *7*	1/2−	1	$g\Gamma_n$=20 eV *5*.
S(n)+743.8 *7*	1/2+	0	$g\Gamma_n$=718 eV *14*.
S(n)+747.2 *7*	(5/2−)	(3)	$g\Gamma_n$=62 eV *6*.
S(n)+751.1 *8*	(5/2−)	(3)	$g\Gamma_n$=66 eV *6*.
S(n)+754.7 *8*	3/2−	1	$g\Gamma_n$=15.55 keV *6*.
S(n)+757.9 *8*	(5/2−)	(3)	$g\Gamma_n$=230 eV *7*.
S(n)+758.9 *8*	(5/2−)	(3)	$g\Gamma_n$=241 eV *7*.
S(n)+761.8 *8*	(5/2−)	(3)	$g\Gamma_n$=310 eV *8*.
S(n)+764.2 *8*	1/2+	0	$g\Gamma_n$=408 eV *11*.
S(n)+765.6 *8*	(5/2−)	(3)	$g\Gamma_n$=47 eV *7*.
S(n)+766.2 *8*	(7/2−)	(3)	$g\Gamma_n$=65 eV *8*.
S(n)+766.3 *8*	3/2−	1	$g\Gamma_n$=31.36 keV *17*.
S(n)+766.6 *8*	(7/2−)	(3)	$g\Gamma_n$=145 eV *10*.

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^{88}Sr(n,n),(n,γ):resonances 2006MuZX,2000Ko58 (continued)

^{89}Sr Levels (continued)

E(level)†	J^{π}‡	L	Comments
S(n)+767.0 *8*	(5/2⁻)	(3)	$g\Gamma_n$=412 eV *11*.
S(n)+767.7 *8*	(5/2⁻)	(3)	$g\Gamma_n$=76 eV *8*.
S(n)+770.0 *8*	(7/2⁻)	(3)	$g\Gamma_n$=0.12 keV *3*.
S(n)+770.3 *8*	7/2⁻	3	$g\Gamma_n$=0.31 keV *5*.
S(n)+770.4 *8*	(1/2⁺)	(0)	$g\Gamma_n$=112 eV *13*.
S(n)+772.6 *8*	3/2⁻	1	$g\Gamma_n$=1.66 keV *4*.
S(n)+774.6 *8*	5/2⁻	3	$g\Gamma_n$=0.21 keV *11*.
S(n)+774.7 *8*	(3/2)⁻	1	$g\Gamma_n$=19405 eV *13*.
S(n)+774.9 *8*	5/2⁻	3	$g\Gamma_n$=663 eV *14*.
S(n)+775.8 *8*	(7/2⁻)	(3)	$g\Gamma_n$=44 eV *7*.
S(n)+776.4 *8*	(7/2⁻)	(3)	$g\Gamma_n$=117 eV *8*.
S(n)+780.2 *8*	1/2⁻	1	$g\Gamma_n$=0.53 keV *3*.
S(n)+780.5 *8*	3/2⁻	1	$g\Gamma_n$=2285 eV *15*.
S(n)+781.9 *8*	(5/2⁻)	(3)	$g\Gamma_n$=101 eV *11*.
S(n)+782.4 *8*	(7/2⁻)	(3)	$g\Gamma_n$=175 eV *9*.
S(n)+782.8 *8*	(7/2⁻)	(3)	$g\Gamma_n$=147 eV *8*.
S(n)+783.3 *8*	(5/2⁻)	(3)	$g\Gamma_n$=126 eV *8*.
S(n)+785.3 *8*	3/2⁻	1	$g\Gamma_n$=12.00 keV *7*.
S(n)+785.6 *8*	(5/2⁻)	(3)	$g\Gamma_n$=191 eV *9*.
S(n)+786.2 *8*	(7/2⁻)	(3)	$g\Gamma_n$=262 eV *11*.
S(n)+786.7 *8*	(7/2⁻)	(3)	$g\Gamma_n$=250 eV *10*.
S(n)+788.2 *8*	7/2⁻	3	$g\Gamma_n$=460 eV *23*.
S(n)+788.4 *8*	(3/2⁻)	(1)	$g\Gamma_n$=532 eV *11*.
S(n)+793.4 *8*	(5/2⁻)	(3)	$g\Gamma_n$=191 eV *8*.
S(n)+794.3 *8*	5/2⁻	3	$g\Gamma_n$=0.16 keV *6*.
S(n)+794.4 *8*	3/2⁻	1	$g\Gamma_n$=14740 eV *9*.
S(n)+794.8 *8*	(7/2⁻)	(3)	$g\Gamma_n$=428 eV *12*.
S(n)+795.3 *8*	(7/2⁻)	(3)	$g\Gamma_n$=182 eV *10*.
S(n)+798.7 *8*	(5/2⁻)	(3)	$g\Gamma_n$=375 eV *10*.
S(n)+801.3 *8*	(5/2⁻)	(3)	$g\Gamma_n$=129 eV *9*.
S(n)+801.9 *8*	1/2⁺	0	$g\Gamma_n$=46 eV *6*.
S(n)+802.5 *8*	(5/2⁻)	(3)	$g\Gamma_n$=214 eV *9*.
S(n)+804.3 *8*	(5/2⁻)	(3)	$g\Gamma_n$=102 eV *8*.
S(n)+807.4 *8*	(7/2⁻)	(3)	$g\Gamma_n$=280 eV *8*.
S(n)+808.7 *8*	3/2⁻	1	$g\Gamma_n$=745 eV *11*.
S(n)+810.9 *8*	1/2⁺	0	$g\Gamma_n$=29 eV *6*.
S(n)+811.7 *8*	1/2⁺	0	$g\Gamma_n$=41 eV *6*.
S(n)+812.9 *8*	(7/2⁻)	(3)	$g\Gamma_n$=217 eV *9*.
S(n)+813.3 *8*	(7/2⁻)	(3)	$g\Gamma_n$=272 eV *11*.
S(n)+813.8 *8*	3/2⁻	1	$g\Gamma_n$=1306 eV *20*.
S(n)+814.3 *8*	1/2⁻	1	$g\Gamma_n$=1.48 keV *3*.
S(n)+815.6 *8*	(5/2⁻)	(3)	$g\Gamma_n$=77 eV *10*.
S(n)+816.1 *8*	(5/2⁻)	(3)	$g\Gamma_n$=49 eV *7*.
S(n)+816.9 *8*	(7/2⁻)	(3)	$g\Gamma_n$=133 eV *8*.
S(n)+820.2 *8*	(5/2⁻)	(3)	$g\Gamma_n$=295 eV *9*.
S(n)+820.8 *8*	3/2⁻	1	$g\Gamma_n$=10.80 keV *6*.
S(n)+821.3 *8*	1/2⁺	0	$g\Gamma_n$=16 eV *6*.
S(n)+821.7 *8*	1/2⁺	0	$g\Gamma_n$=67 eV *8*.
S(n)+822.4 *8*	(5/2⁻)	(3)	$g\Gamma_n$=502 eV *10*.
S(n)+823.0 *8*	3/2⁻	1	$g\Gamma_n$=5.43 keV *5*.
S(n)+823.8 *8*	1/2⁺	0	$g\Gamma_n$=48 eV *7*.
S(n)+827.6 *8*	3/2⁻	1	$g\Gamma_n$=4.23 keV *3*.
S(n)+828.5 *8*	(5/2⁻)	(3)	$g\Gamma_n$=119 eV *9*.
S(n)+832.6 *8*	(5/2⁻)	(3)	$g\Gamma_n$=576 eV *13*.
S(n)+833.2 *8*	1/2⁻	1	$g\Gamma_n$=1.33 keV *6*.
S(n)+834.0 *8*	5/2⁻	3	$g\Gamma_n$=395 eV *19*.

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^{88}Sr(n,n),(n,γ):resonances 2006MuZX,2000Ko58 (continued)

^{89}Sr Levels (continued)

E(level)†	J^{π}‡	L	Comments
S(n)+836.1 *8*	(1/2+)	(0)	$g\Gamma_n$=1163 eV *23*.
S(n)+837.4 *8*	1/2+	0	$g\Gamma_n$=72 eV *7*.
S(n)+838.5 *8*	(1/2+)	(0)	$g\Gamma_n$=36 eV *6*.
S(n)+839.7 *8*	(5/2−)	(3)	$g\Gamma_n$=300 eV *8*.
S(n)+840.5 *8*	(1/2+)	(0)	$g\Gamma_n$=75 eV *6*.
S(n)+841.5 *8*	7/2−	3	$g\Gamma_n$=213 eV *8*.
S(n)+842.7 *8*	(7/2−)	(3)	$g\Gamma_n$=25 eV *6*.
S(n)+846.0 *8*	(7/2−)	(3)	$g\Gamma_n$=101 eV *8*.
S(n)+847.5 *9*	(3/2+)	(2)	$g\Gamma_n$=391 eV *12*.
S(n)+847.9 *9*	7/2−	3	$g\Gamma_n$=770 eV *11*.
S(n)+849.6 *9*	(5/2+)	(2)	$g\Gamma_n$=215 eV *11*.
S(n)+850.3 *9*	3/2+	2	$g\Gamma_n$=1503 eV *22*.
S(n)+851.0 *9*	(1/2+)	(0)	$g\Gamma_n$=1.62 keV *3*.
S(n)+852.0 *9*	3/2−	1	$g\Gamma_n$=385.57 keV *14*.
S(n)+853.3 *9*	(7/2−)	(3)	$g\Gamma_n$=71 eV *9*.
S(n)+861.4 *9*	5/2−	3	$g\Gamma_n$=114 eV *9*.
S(n)+862.3 *9*	(1/2+)	(0)	$g\Gamma_n$=61 eV *7*.
S(n)+863.9 *9*	(7/2−)	(3)	$g\Gamma_n$=64 eV *9*.
S(n)+866.8 *9*	1/2+	0	$g\Gamma_n$=526 eV *17*.
S(n)+868.5 *9*	(1/2+)	(0)	$g\Gamma_n$=53 eV *7*.
S(n)+870.3 *9*	(1/2+)	(0)	$g\Gamma_n$=38 eV *6*.
S(n)+871.4 *9*	5/2−	3	$g\Gamma_n$=79 eV *8*.
S(n)+872.1 *9*	(7/2−)	(3)	$g\Gamma_n$=88 eV *8*.
S(n)+874.9 *9*	3/2+	2	$g\Gamma_n$=3.01 keV *3*.
S(n)+875.0 *9*	(5/2−)	(3)	$g\Gamma_n$=120 eV *10*.
S(n)+877.7 *9*	(7/2−)	(3)	$g\Gamma_n$=462 eV *12*.
S(n)+878.2 *9*	(5/2−)	(3)	$g\Gamma_n$=860 eV *16*.
S(n)+878.9 *9*	7/2−	3	$g\Gamma_n$=255 eV *10*.
S(n)+880.1 *9*	(5/2−)	(3)	$g\Gamma_n$=266 eV *10*.
S(n)+880.7 *9*	(7/2−)	(3)	$g\Gamma_n$=521 eV *11*.
S(n)+881.2 *9*	(5/2−)	(3)	$g\Gamma_n$=539 eV *12*.
S(n)+881.8 *9*	7/2−	3	$g\Gamma_n$=531 eV *12*.
S(n)+883.6 *9*	(1/2+)	(0)	$g\Gamma_n$=18 eV *7*.
S(n)+883.7 *9*	(1/2+)	(0)	$g\Gamma_n$=20 eV *7*.
S(n)+884.4 *9*	7/2−	3	$g\Gamma_n$=241 eV *9*.
S(n)+885.2 *9*	(1/2+)	(0)	$g\Gamma_n$=28 eV *6*.
S(n)+887.7 *9*	(5/2−)	(3)	$g\Gamma_n$=71 eV *8*.
S(n)+888.3 *9*	(7/2−)	(3)	$g\Gamma_n$=83 eV *8*.
S(n)+889.2 *9*	(5/2−)	(3)	$g\Gamma_n$=614 eV *13*.
S(n)+889.7 *9*	(5/2−)	(3)	$g\Gamma_n$=170 eV *12*.
S(n)+890.6 *9*	7/2−	3	$g\Gamma_n$=891 eV *14*.
S(n)+891.1 *9*	5/2−	3	$g\Gamma_n$=484 eV *12*.
S(n)+891.7 *9*	(7/2−)	(3)	$g\Gamma_n$=618 eV *13*.
S(n)+892.8 *9*	5/2−	3	$g\Gamma_n$=207 eV *14*.
S(n)+893.2 *9*	5/2−	3	$g\Gamma_n$=377 eV *16*.
S(n)+893.8 *9*	(3/2−)	(1)	$g\Gamma_n$=32.92 keV *15*.
S(n)+893.9 *9*	(7/2−)	(3)	$g\Gamma_n$=133 eV *11*.
S(n)+894.5 *9*	(7/2−)	(3)	$g\Gamma_n$=97 eV *13*.
S(n)+895.6 *9*	1/2+	0	$g\Gamma_n$=0.33 keV *3*.
S(n)+896.6 *9*	(7/2−)	(3)	$g\Gamma_n$=119 eV *10*.
S(n)+898.7 *9*	(5/2−)	(3)	$g\Gamma_n$=91 eV *21*.
S(n)+899.1 *9*	(7/2−)	(3)	$g\Gamma_n$=501 eV *21*.
S(n)+899.3 *9*	1/2+	0	$g\Gamma_n$=0.52 keV *6*.
S(n)+899.4 *9*	(5/2−)	(3)	$g\Gamma_n$=0.39 keV *3*.
S(n)+900.0 *9*	(7/2−)	(3)	$g\Gamma_n$=83 eV *14*.
S(n)+902.5 *9*	1/2+	0	$g\Gamma_n$=237 eV *13*.

Continued on next page (footnotes at end of table)

^{88}Sr(n,n),(n,γ):resonances 2006MuZX,2000Ko58 (continued)

^{89}Sr Levels (continued)

E(level)†	J^{π}‡	L	Comments
S(n)+904.3 *9*	(7/2$^-$)	(3)	gΓ_n=324 eV *13*.
S(n)+911.4 *9*	(7/2$^-$)	(3)	gΓ_n=52 eV *8*.
S(n)+913.8 *9*	(7/2$^-$)	(3)	gΓ_n=495 eV *15*.
S(n)+913.9 *9*	1/2$^+$	0	gΓ_n=622 eV *24*.
S(n)+915.8 *9*	(7/2$^-$)	(3)	gΓ_n=301 eV *10*.
S(n)+917.1 *9*	1/2$^+$	0	gΓ_n=128 eV *9*.
S(n)+920.5 *9*	(3/2$^-$)	(1)	gΓ_n=20.346 keV *11*.
S(n)+921.4 *9*	(7/2$^-$)	(3)	gΓ_n=0.11 keV *10*.
S(n)+928.4 *9*	(7/2$^-$)	(3)	gΓ_n=1.226 keV *13*.
S(n)+930.4 *9*	(3/2$^-$)	(1)	gΓ_n=8.64 keV *6*.
S(n)+934.3 *9*	(7/2$^-$)	(3)	gΓ_n=1541 eV *19*.
S(n)+939.1 *9*	(7/2$^-$)	(3)	gΓ_n=1546 eV *15*.
S(n)+940.8 *9*	1/2$^+$	0	gΓ_n=80 eV *8*.
S(n)+942.3 *9*	(7/2$^-$)	(3)	gΓ_n=615 eV *12*.
S(n)+943.3 *9*	1/2$^+$	0	gΓ_n=199 eV *11*.
S(n)+944.2 *9*	(7/2$^-$)	(3)	gΓ_n=414 eV *13*.
S(n)+945.4 *9*	(7/2$^-$)	(3)	gΓ_n=455 eV *14*.
S(n)+947.6 *9*	(7/2$^-$)	(3)	gΓ_n=35 eV *11*.
S(n)+948.2 *9*	(3/2$^-$)	(1)	gΓ_n=20.27 keV *21*.

† Excitation energy=E(n)(c.m.)+S(n) can be obtained from E(n)(lab), where S(n)=6358.72 *9* (2011AuZZ). The excitation energies range from 6370.99 to 7296.26 keV corresponding to 439 resonances from 12.41 to 948.2 keV.

‡ Parity=$(-1)^L$.

g=statistical weight factor=(2J(resonance)+1)/[2(2J(target)+1)]; with target spin=0, g=[2J(resonance)+1]/2. Thus g=1 for spin 1/2 resonance and 2 for spin 3/2 resonance.