

⁷⁵As(n,γ),(n,n):resonances 2018MuZY

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Jun Chen and Ameenah R. Farhan		NDS 194,3 (2024)	8-Jan-2024

$J^\pi(^{75}\text{As g.s.})=3/2^-$.

All resonance parameters taken from 2018MuZY evaluation, unless otherwise stated.

2018MuZY: evaluation of neutron resonance energies, J^π values, width parameters, and resonance strengths for nuclei of Z=1-60.

Experimental data: 1988Ma24, 1995Ra25, 1997Ka47, 2003Ka10.

⁷⁶As Levels

S(n)=7328.50 7 (2021Wa16).

E(level)	J^π	L	Resonance strength (meV) [†]	Comments
S(n)-1.147?	2 ⁻	0		E(level): fictitious level. $\Gamma_\gamma=(0.300)$ eV.
S(n)-0.377?	1 ⁻	0		E(level): fictitious level. $\Gamma_\gamma=(0.300)$ eV.
S(n)+0.0470 2	2 ⁻	0	19 2	$2g\Gamma_n=0.044$ eV 4, $\Gamma_\gamma=0.26$ eV 4.
S(n)+0.0924 3	1 ⁻	0		$2g\Gamma_n=0.016$ eV 2, $\Gamma_\gamma=0.25$ eV 4.
S(n)+0.2527 5	2 ⁻	0		$2g\Gamma_n=0.058$ eV 5, $\Gamma_\gamma=0.27$ eV 7.
S(n)+0.3186 5	2 ⁻	0		$2g\Gamma_n=0.59$ eV 5, $\Gamma_\gamma=0.30$ eV 3.
S(n)+0.3267 5	1 ⁻	0		$2g\Gamma_n=0.41$ eV 3, $\Gamma_\gamma=0.35$ eV 6.
S(n)+0.4555 6	1 ⁻	0		$2g\Gamma_n=0.032$ eV 8, $\Gamma_\gamma=0.34$ eV 7.
S(n)+0.4769 6	1 ⁻	0		$2g\Gamma_n=0.011$ eV 3, $\Gamma_\gamma=0.34$ eV 10.
S(n)+0.4933 3		(1)		$2g\Gamma_n=1.3$ meV 4, $\Gamma_\gamma=(0.300)$ eV.
S(n)+0.5334 10	2 ⁻	0		$2g\Gamma_n=3.38$ eV 20, $\Gamma_\gamma=0.28$ eV 5.
S(n)+0.6649 8	2 ⁻	0		$2g\Gamma_n=0.320$ eV 20, $\Gamma_\gamma=0.31$ eV 7.
S(n)+0.7333 8	1 ⁻	0		$2g\Gamma_n=0.90$ eV 9, $\Gamma_\gamma=0.35$ eV 20.
S(n)+0.7374 8	2 ⁻	0		$2g\Gamma_n=2.45$ eV 22, $\Gamma_\gamma=0.30$ eV 20.
S(n)+0.8746 6		(1)		$2g\Gamma_n=0.0059$ eV 12, $\Gamma_\gamma=(0.300)$ eV.
S(n)+0.8955 8	1 ⁻	0		$2g\Gamma_n=0.160$ eV 15, $\Gamma_\gamma=0.34$ eV 6.
S(n)+0.929 1	2 ⁻	0		$2g\Gamma_n=1.18$ eV 8, $\Gamma_\gamma=0.24$ eV 12.
S(n)+1.110 1	1 ⁻	0		$2g\Gamma_n=0.135$ eV 15, $\Gamma_\gamma=0.33$ eV 5.
S(n)+1.299 2	2 ⁻	0		$2g\Gamma_n=2.38$ eV 22, $\Gamma_\gamma=0.33$ eV 5.
S(n)+1.353 2	1 ⁻	0		$2g\Gamma_n=0.54$ eV 6, $\Gamma_\gamma=0.26$ eV 6.
S(n)+1.443 2	2 ⁻	0		$2g\Gamma_n=1.72$ eV 14, $\Gamma_\gamma=0.28$ eV 6.
S(n)+1.4793 15	(1 ⁻)	0		$2g\Gamma_n=0.050$ eV 15, $\Gamma_\gamma=(0.300)$ eV.
S(n)+1.683 2	2 ⁻	0		$2g\Gamma_n=4.0$ eV 4, $\Gamma_\gamma=(0.300)$ eV.
S(n)+1.739 2		(1)		$2g\Gamma_n=0.013$ eV 3, $\Gamma_\gamma=(0.300)$ eV.
S(n)+1.807 3	1 ⁻	0		$2g\Gamma_n=0.58$ eV 9, $\Gamma_\gamma=0.29$ eV 6.
S(n)+1.8456 10		(1)		$2g\Gamma_n=0.0176$ eV 26, $\Gamma_\gamma=(0.300)$ eV.
S(n)+1.904 3	2 ⁻	0		$2g\Gamma_n=3.7$ eV 3, $\Gamma_\gamma=0.240$ eV.
S(n)+2.0211 10		(1)		$2g\Gamma_n=0.019$ eV 4, $\Gamma_\gamma=(0.300)$ eV.
S(n)+2.049 3	1 ⁻	0		$2g\Gamma_n=0.30$ eV 8, $\Gamma_\gamma=0.200$ eV.
S(n)+2.1900 15		(1)		$2g\Gamma_n=0.011$ eV 4, $\Gamma_\gamma=(0.300)$ eV.
S(n)+2.2320 15		(1)		$2g\Gamma_n=0.0057$ eV 19, $\Gamma_\gamma=(0.300)$ eV. Spurious or p-wave resonance.
S(n)+2.2560 15		(1)		$2g\Gamma_n=0.016$ eV 3, $\Gamma_\gamma=(0.300)$ eV.
S(n)+2.2880 15		(1)		$2g\Gamma_n=0.024$ eV 5, $\Gamma_\gamma=(0.300)$ eV.
S(n)+2.3300 15		(1)		$2g\Gamma_n=0.0106$ eV 19, $\Gamma_\gamma=(0.300)$ eV.
S(n)+2.3650 15	(1 ⁻)	0		$2g\Gamma_n=0.088$ eV 5, $\Gamma_\gamma=(0.300)$ eV.
S(n)+2.3950 15		(1)		$2g\Gamma_n=0.018$ eV 3, $\Gamma_\gamma=(0.300)$ eV.
S(n)+2.4030 15		(1)		$2g\Gamma_n=0.0049$ eV 20, $\Gamma_\gamma=(0.300)$ eV. Spurious or p-wave resonance.
S(n)+2.4700 15		(1)		$2g\Gamma_n=0.015$ eV 5, $\Gamma_\gamma=(0.300)$ eV.

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$^{75}\text{As}(n,\gamma),(n,n)$:resonances **2018MuZY** (continued) ^{76}As Levels (continued)

E(level)	J^π	L	Resonance strength (meV) [†]	Comments
S(n)+2.511 3	1 ⁻	0		$2g\Gamma_n=1.09$ eV 11, $\Gamma_\gamma=0.28$ eV 6.
S(n)+2.5770 15		(1)		$2g\Gamma_n=0.015$ eV 4, $\Gamma_\gamma=(0.300)$ eV.
S(n)+2.616 3	2 ⁻	0		$2g\Gamma_n=2.9$ eV 3, $\Gamma_\gamma=(0.300)$ eV.
S(n)+2.676 3		(1)		$2g\Gamma_n=0.0128$ eV 14.
S(n)+2.734 3	2 ⁻	0	189.8 13	$2g\Gamma_n=4.4$ eV 5, $\Gamma_\gamma=0.332$ eV 10.
S(n)+2.751 3		(1)	3.5 1	$2g\Gamma_n=0.0072$ eV 1.
S(n)+2.766 3		(1)	2.7 1	$2g\Gamma_n=0.0055$ eV.
S(n)+2.822 3	1 ⁻	0	125 1	$2g\Gamma_n=2.55$ eV 21, $\Gamma_\gamma=0.370$ eV 8.
S(n)+2.840 3		(1)	8.0 2	$2g\Gamma_n=0.0168$ eV 4.
S(n)+2.904 3		(1)	15.1 2	$2g\Gamma_n=0.0318$ eV 16.
S(n)+2.939 3		(1)	24.2 2	$2g\Gamma_n=0.053$ eV 4.
S(n)+2.945 3		(1)	4.7 4	$2g\Gamma_n=0.0097$ eV 1.
S(n)+3.009 3		(1)	3.3 2	$2g\Gamma_n=0.0067$ eV 1.
S(n)+3.083 3		(1)	36.9 3	$2g\Gamma_n=0.075$ eV 16.
S(n)+3.146 3	2 ⁻	0	189.0 17	$2g\Gamma_n=1.90$ eV 22, $\Gamma_\gamma=0.38$ eV 3.
S(n)+3.228 3	2 ⁻	0	116 1	$2g\Gamma_n=0.42$ eV 8, $\Gamma_\gamma=0.417$ eV.
S(n)+3.278 3		(1)	3.5 3	$2g\Gamma_n=0.0072$ eV 1.
S(n)+3.308 3		(1)	7.9 4	$2g\Gamma_n=0.0158$ eV 8.
S(n)+3.425 3		(1)	3.1 3	$2g\Gamma_n=0.0063$ eV 1.
S(n)+3.461 4	2 ⁻	0	178.7 21	$2g\Gamma_n=3.4$ eV 4, $\Gamma_\gamma=0.319$ eV 10.
S(n)+3.504 4	1 ⁻	0	113 3	2006MuZX state that a level at 3505 eV observed in transmission measurements is a doublet. $2g\Gamma_n=7.1$ eV 10, $\Gamma_\gamma=0.311$ eV 4.
S(n)+3.510 4			171 3	
S(n)+3.570 4		(1)	5.8 4	$2g\Gamma_n=0.0120$ eV 2.
S(n)+3.714 4	2 ⁻	0	202.1 22	$2g\Gamma_n=4.9$ eV 6, $\Gamma_\gamma=0.353$ eV 11.
S(n)+3.731 4		(1)	10.1 7	$2g\Gamma_n=0.0216$ eV 7.
S(n)+3.749 4	(1 ⁻)	0	9 1	Uncertainty=0 in 2006MuZX seems a misprint, evaluators assign 1. $2g\Gamma_n=0.120$ eV 25.
S(n)+3.782 4		(1)	18.1 7	$2g\Gamma_n=0.026$ eV 15.
S(n)+3.822 4	2 ⁻	0	73.5 3	$2g\Gamma_n=0.223$ eV 25, $\Gamma_\gamma=0.346$ eV.
S(n)+3.855 4	2 ⁻	0	187.7 24	$2g\Gamma_n=3.1$ eV 4, $\Gamma_\gamma=0.342$ eV 16.
S(n)+3.928 4		(1)	13.3 16	$2g\Gamma_n=0.0290$ eV 13.
S(n)+3.936 4	2 ⁻	0	198.6 26	$2g\Gamma_n=5.3$ eV 6, $\Gamma_\gamma=0.344$ eV 9.
S(n)+3.978 4		(1)	7.6 6	$2g\Gamma_n=0.0160$ eV 4.
S(n)+3.990 4		(1)	13.1 8	$2g\Gamma_n=0.0285$ eV 13.
S(n)+4.002 4	1 ⁻	0	117.2 17	$2g\Gamma_n=2.15$ eV 26, $\Gamma_\gamma=0.351$ eV 14.
S(n)+4.099 4		(1)	15.5 28	$2g\Gamma_n=0.0364$ eV 20.
S(n)+4.100 4		(1)	11.4 27	$2g\Gamma_n=0.0245$ eV 9.
S(n)+4.148 4	(1 ⁻)	0	68.9 4	$2g\Gamma_n=0.17$ eV 5.
S(n)+4.245 4		(1)	6.5 8	$2g\Gamma_n=0.0135$ eV 3.
S(n)+4.256 4		(1)	62.1 14	$2g\Gamma_n=0.085$ eV 20.
S(n)+4.290 4	2 ⁻	0	98.2 25	$2g\Gamma_n=0.33$ eV 5, $\Gamma_\gamma=0.393$ eV.
S(n)+4.358 4	2 ⁻	0	154 3	$2g\Gamma_n=0.79$ eV 13, $\Gamma_\gamma=0.402$ eV.
S(n)+4.380 4		(1)	47.8 15	$2g\Gamma_n=0.08$ eV 6.
S(n)+4.444 4		(1)	37.1 13	$2g\Gamma_n=0.070$ eV 11.
S(n)+4.471 5		(1)	17.3 9	$2g\Gamma_n=0.0375$ eV 13.
S(n)+4.517 5	1 ⁻	0	131 3	$2g\Gamma_n=1.48$ eV 27, $\Gamma_\gamma=0.43$ eV 6.
S(n)+4.580 5	1 ⁻	0	168 4	$2g\Gamma_n=0.51$ eV 10.
S(n)+4.674 5	2 ⁻	0	180 3	$2g\Gamma_n=4.10$ eV 4, $\Gamma_\gamma=0.316$ eV 8.
S(n)+4.763 5	2 ⁻	0	181 3	$2g\Gamma_n=3.3$ eV 4, $\Gamma_\gamma=0.325$ eV 14.
S(n)+4.781 5		(1)	34.8 15	$2g\Gamma_n=0.089$ eV 12.
S(n)+4.856 5		(1)	8.1 5	$2g\Gamma_n=0.0171$ eV 5.
S(n)+4.870 5		(1)	7.9 13	$2g\Gamma_n=0.0166$ eV 4.

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⁷⁵As(n,γ),(n,n):resonances **2018MuZY** (continued)

⁷⁶As Levels (continued)

E(level)	J ^π	L	Resonance strength (meV) [†]	Comments
S(n)+4.877 5		(1)	106.4 19	2gΓ _n =0.056 eV 14.
S(n)+4.909 5	2 ⁻	0	199.6 23	2gΓ _n =3.6 eV 6, Γ _γ =0.359 eV 21.
S(n)+4.996 5		(1)	13.1 1	2gΓ _n =0.0285 eV 13.
S(n)+5.009 5	2 ⁻	0	189.3 23	2gΓ _n =3.8 eV 6, Γ _γ =0.336 eV 16.
S(n)+5.049 5		(1)	46.8 2	2gΓ _n =0.014 eV 14.
S(n)+5.091 5	1 ⁻	0	124.1 21	2gΓ _n =1.4 eV 3, Γ _γ =0.40 eV 7.
S(n)+5.160 5		(1)	3.1 4	2gΓ _n =0.0063 eV 1.
S(n)+5.185 5		(1)	20.3 7	2gΓ _n =0.041 eV 5.
S(n)+5.203 5		(1)	6.3 5	2gΓ _n =0.0131 eV 3.
S(n)+5.304 5		(1)	35.5 9	2gΓ _n =0.068 eV 20.
S(n)+5.325 5		(1)	58.3 11	2gΓ _n =0.12 eV 7.
S(n)+5.391 5	1 ⁻	0	103.1 19	2gΓ _n =1.7 eV 3, Γ _γ =0.313 eV 25.
S(n)+5.451 6	2 ⁻	0	122.6 14	2gΓ _n =0.59 eV 15, Γ _γ =0.34 eV 6.
S(n)+5.471 6		(1)	49 1	2gΓ _n =0.09 eV 5.
S(n)+5.490 6		(1)	22.9 8	2gΓ _n =0.054 eV 5.
S(n)+5.514 6		(1)	16.5 6	2gΓ _n =0.0368 eV 21.
S(n)+5.532 6		(1)	5.6 6	2gΓ _n =0.0116 eV 2.
S(n)+5.565 6		(1)	21.7 14	2gΓ _n =0.050 eV 4.
S(n)+5.577 6	2 ⁻	0	200 3	2gΓ _n =9.3 eV 8, Γ _γ =0.335 eV 6.
S(n)+5.614 6	1 ⁻	0	130.0 22	2gΓ _n =3.8 eV 8, Γ _γ =0.373 eV 19.
S(n)+5.631 6		(1)	21 1	2gΓ _n =0.049 eV 4.
S(n)+5.712 6			127.6 18	
S(n)+5.736 6	1 ⁻	0	106.3 18	2gΓ _n =7.6 eV 15, Γ _γ =0.292 eV 6.
S(n)+5.760 6	2 ⁻	0	166.7 24	2gΓ _n =2.7 eV 3, Γ _γ =0.304 eV 13.
S(n)+5.826 6		(1)	4.1 4	2gΓ _n =0.0084 eV 1.
S(n)+5.865 6	1 ⁻	0	109.0 19	2gΓ _n =2.3 eV 3, Γ _γ =0.321 eV 13.
S(n)+5.906 6		(1)	1.6 4	2gΓ _n =3.23 meV 2.
S(n)+5.925 6		(1)	23.0 7	2gΓ _n =0.054 eV 5.
S(n)+5.999 6	2 ⁻	0	206 3	2gΓ _n =7.8 eV 16, Γ _γ =0.348 eV 14.
S(n)+6.022 6		(1)	6.3 10	2gΓ _n =0.0131 eV 3.
S(n)+6.040 6		(1)	27.8 11	2gΓ _n =0.067 eV 7.
S(n)+6.073 6		(1)	144.9 25	2gΓ _n =0.08 eV 3.
S(n)+6.151 6		(1)	3.5 8	2gΓ _n =0.0072 eV 1.
S(n)+6.178 6	2 ⁻	0	182 3	2gΓ _n =3.3 eV 6, Γ _γ =0.33 eV 3.
S(n)+6.275 6		(1)	24.9 10	2gΓ _n =0.053 eV 6.
S(n)+6.306 6		(1)	23.8 10	Resonance strength (meV): uncertainty of 0.01 in 2006MuZX seems a misprint, evaluators assign 1.0, as for many other resonances.
S(n)+6.337 6		0	126.7 18	2gΓ _n =0.056 eV 5.
S(n)+6.423 6	2 ⁻	0	190.3 29	2gΓ _n =0.40 eV 8.
S(n)+6.448 6	2 ⁻	0	173 3	2gΓ _n =4.8 eV 6, Γ _γ =0.331 eV 11.
S(n)+6.509 7		(1)	13.8 9	2gΓ _n =5.1 eV 6, Γ _γ =0.296 eV 7.
S(n)+6.553 7	2 ⁻	0	169 4	2gΓ _n =0.023 eV 7.
S(n)+6.601 7		(1)	2.4 6	2gΓ _n =2.1 eV 5, Γ _γ =0.32 eV 6.
S(n)+6.679 7		(1)	11.7 9	2gΓ _n =0.0049 eV 1.
S(n)+6.729 7		(1)	40.1 14	2gΓ _n =0.0252 eV 10.
S(n)+6.747 7		(1)	13.1 11	2gΓ _n =0.108 eV 18.
S(n)+6.764 7		(1)	56.4 16	2gΓ _n =0.0285 eV 13.
S(n)+6.803 7		(1)	35.3 13	2gΓ _n =0.13 eV 5.
S(n)+6.868 7		(1)	11.3 9	2gΓ _n =0.091 eV 13.
S(n)+6.887 7		(1)	28.7 13	2gΓ _n =0.0243 eV 9.
S(n)+6.905 7	2 ⁻	0	70.7 18	2gΓ _n =0.070 eV 8.
S(n)+6.931 7		(1)	8.0 9	2gΓ _n =0.22 eV 8, Γ _γ =0.327 eV.
S(n)+6.960 7	2 ⁻	0	211 3	2gΓ _n =0.0168 eV 4.
S(n)+6.976 7		(1)	58.6 22	2gΓ _n =5.4 eV 7, Γ _γ =0.367 eV 11.
				2gΓ _n =0.19 eV 5.

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⁷⁵As(n,γ),(n,n):resonances 2018MuZY (continued)

⁷⁶As Levels (continued)

E(level)	J ^π	L	Resonance strength (meV) [†]	Comments
S(n)+7.074 7	(1 ⁻)	0	71.0 19	2gΓ _n =0.42 eV 9.
S(n)+7.122 7	(1 ⁻)	0	238 6	2gΓ _n =0.59 eV 17.
S(n)+7.262 7		(1)	11 1	2gΓ _n =0.0246 eV 10.
S(n)+7.302 7		(1)	20.4 13	2gΓ _n =0.032 eV 15.
S(n)+7.368 7		(1)	15.3 35	2gΓ _n =0.0338 eV 18.
S(n)+7.379 7	(1 ⁻)	0	254 5	2gΓ _n =2.6 eV 5.
S(n)+7.446 7	2 ⁻	0	165 4	2gΓ _n =1.7 eV 4, Γ _γ =0.33 eV 6.
S(n)+7.490 8		(1)	23.7 14	2gΓ _n =0.037 eV 19.
S(n)+7.514 8		(1)	9 1	2gΓ _n =0.0197 eV 6.
S(n)+7.530 8		(1)	10.9 12	2gΓ _n =0.0234 eV 9.
S(n)+7.598 8	1 ⁻	0	80.9 27	2gΓ _n =0.61 eV 14, Γ _γ =0.294 eV.
S(n)+7.628 8		0	334 5	2gΓ _n =1.8 eV 4.
S(n)+7.683 8	1 ⁻	0	89.0 27	2gΓ _n =0.53 eV 11, Γ _γ =0.359 eV.
S(n)+7.713 8		(1)	84.9 26	2gΓ _n =0.18 eV 9.
S(n)+7.735 8		(1)	8.7 12	2gΓ _n =0.0184 eV 5.
S(n)+7.780 8	2 ⁻	0	165 6	2gΓ _n =1.3 eV 3, Γ _γ =0.352 eV.
S(n)+7.809 8		(1)	4.6 11	2gΓ _n =0.0095 eV 1.
S(n)+7.851 8		(1)	18.0 11	2gΓ _n =0.041 eV 3.
S(n)+7.878 8		(1)	63.1 18	2gΓ _n =0.12 eV 3.
S(n)+7.921 8	2 ⁻	0	141.9 25	2gΓ _n =0.66 eV 9, Γ _γ =0.399 eV.
S(n)+7.990 8		(1)	19.1 13	2gΓ _n =0.043 eV 3.
S(n)+8.029 8		(1)	200.8 37	2gΓ _n =0.27 eV 9.
S(n)+8.060 8		(1)	29.6 14	2gΓ _n =0.073 eV 8.
S(n)+8.137 8		(1)	12 1	2gΓ _n =0.0257 eV 10.
S(n)+8.245 8	2 ⁻	0	180 4	2gΓ _n =3.5 eV 7, Γ _γ =0.32 eV 3.
S(n)+8.273 8		(1)	19.0 13	2gΓ _n =0.043 eV 3.
S(n)+8.318 8	2 ⁻	0	185 4	2gΓ _n =2.7 eV 6, Γ _γ =0.34 eV 4.
S(n)+8.342 8		(1)	38.9 17	2gΓ _n =0.103 eV 17.
S(n)+8.383 8	1 ⁻	0	138 3	2gΓ _n =5.9 eV 9, Γ _γ =0.385 eV 9.
S(n)+8.504 9		(1)	13 5	2gΓ _n =0.0271 eV 11.
S(n)+8.514 9	1 ⁻	0	243 5	2gΓ _n =2.2 eV 4.
S(n)+8.540 9		(1)	20.7 18	2gΓ _n =0.048 eV 4.
S(n)+8.557 9		(1)	54 2	2gΓ _n =0.19 eV 3.
S(n)+8.595 9	2 ⁻	0	151 7	2gΓ _n =0.83 eV 19, Γ _γ =0.378 eV.
S(n)+8.678 9		(1)	49.3 19	2gΓ _n =0.14 eV 3.
S(n)+8.737 9		(1)	9.6 11	2gΓ _n =0.0204 eV 7.
S(n)+8.773 9		(1)	129 3	2gΓ _n =0.28 eV 10.
S(n)+8.830 9		(1)	86.9 25	2gΓ _n =0.07 eV 4.
S(n)+8.876 9	2 ⁻	0	198 5	2gΓ _n =1.4 eV 4, Γ _γ =0.440 eV.
S(n)+8.904 9			151 4	
S(n)+8.946 9		(1)	5.8 12	2gΓ _n =0.0120 eV 2.
S(n)+8.992 9		(1)	14.8 13	2gΓ _n =0.0326 eV 17.
S(n)+9.033 9	2 ⁻	0	232 4	2gΓ _n =10.84 eV 19, Γ _γ =0.388 eV 10.
S(n)+9.086 9		(1)	12.9 19	2gΓ _n =0.0281 eV 12.
S(n)+9.101 9			79.0 24	
S(n)+9.141 9		(1)	19.8 13	2gΓ _n =0.051 eV 6.
S(n)+9.179 9		(1)	37.9 17	2gΓ _n =0.100 eV 15.
S(n)+9.219 9		0	213 5	2gΓ _n =1.3 eV 3.
S(n)+9.258 9		(1)	17.5 13	2gΓ _n =0.0393 eV 24.
S(n)+9.322 9		(1)	22.2 14	2gΓ _n =0.052 eV 4.
S(n)+9.366 9		(1)	17 3	2gΓ _n =0.0391 eV 24.
S(n)+9.379 9		0	235 5	2gΓ _n =0.78 eV 19.
S(n)+9.438 9		(1)	50.4 20	2gΓ _n =0.172 eV 23.
S(n)+9.525 10	2 ⁻	0	218 5	2gΓ _n =4.3 eV 10, Γ _γ =0.39 eV 4.
S(n)+9.547 10	1 ⁻	0	127.8 10	2gΓ _n =2.4 eV 6, Γ _γ =0.38 eV 5.

Continued on next page (footnotes at end of table)

$^{75}\text{As}(n,\gamma),(n,n)$:resonances 2018MuZY (continued) ^{76}As Levels (continued)

E(level)	J^π	L	Resonance strength (meV) [†]	Comments
S(n)+9.561 10			123 5	
S(n)+9.621 10		(1)	5.2 12	$2g\Gamma_n=0.0107$ eV 2.
S(n)+9.648 10	2 ⁻	0	116 3	$2g\Gamma_n=0.59$ eV 20, $\Gamma_\gamma=0.307$ eV.
S(n)+9.683 10		0	263 5	$2g\Gamma_n=1.5$ eV 4.
S(n)+9.724 10		(1)	10.3 12	$2g\Gamma_n=0.0220$ eV 8.
S(n)+9.778 10		(1)	53 2	$2g\Gamma_n=0.16$ eV 4.
S(n)+9.804 10		(1)	31.7 16	$2g\Gamma_n=0.079$ eV 10.
S(n)+9.902 10		(1)	57.1 21	$2g\Gamma_n=0.18$ eV 5.
S(n)+9.994 10			66 3	
S(n)+10.010 10			70.6 25	
S(n)+10.080 10			186 6	
S(n)+10.100 10			141 4	
S(n)+10.130 10			140 3	
S(n)+10.160 10		(1)	57.3 22	$2g\Gamma_n=0.18$ eV 5.
S(n)+10.230 10			242 7	
S(n)+10.260 10			88 3	
S(n)+10.310 10			73.2 25	
S(n)+10.370 10		(1)	24.1 14	$2g\Gamma_n=0.057$ eV 5.
S(n)+10.430 10			214 4	
S(n)+10.450 11		(1)	35.4 19	$2g\Gamma_n=0.091$ eV 13.
S(n)+10.550 11			71.9 22	
S(n)+10.570 11			74.5 22	
S(n)+10.620 11		(1)	7.8 16	$2g\Gamma_n=0.0164$ eV 4.
S(n)+10.640 11		(1)	57.7 21	$2g\Gamma_n=0.18$ eV 5.
S(n)+10.700 11		(1)	9.3 11	$2g\Gamma_n=0.0197$ eV 6.
S(n)+10.730 11		(1)	5.3 15	$2g\Gamma_n=0.0110$ eV 2.
S(n)+10.770 11			140 3	
S(n)+10.810 11			193 6	
S(n)+10.830 11		(1)	59 4	$2g\Gamma_n=0.19$ eV 6.
S(n)+10.890 11		(1)	8.3 12	$2g\Gamma_n=0.0175$ eV 5.
S(n)+10.930 11			167 7	
S(n)+10.940 11		(1)	40 4	$2g\Gamma_n=0.109$ eV 18.
S(n)+11.070 11		(1)	44.0 18	$2g\Gamma_n=0.122$ eV 23.
S(n)+11.110 11			67.6 22	
S(n)+11.190 11			305 7	
S(n)+11.250 11			252 7	
S(n)+11.340 11			306 8	
S(n)+11.370 11			81 4	
S(n)+11.420 11		(1)	35.0 23	$2g\Gamma_n=0.090$ eV 13.
S(n)+11.450 12			88 3	
S(n)+11.500 12		(1)	37.8 23	$2g\Gamma_n=0.099$ eV 15.
S(n)+11.540 12			103 5	
S(n)+11.560 12			154 5	
S(n)+11.680 12		(1)	56 5	$2g\Gamma_n=0.17$ eV 5.
S(n)+11.700 12			288 9	
S(n)+11.730 12			126 6	
S(n)+11.800 12			63 3	
S(n)+11.850 12			285 7	
S(n)+11.940 12		(1)	15.8 26	$2g\Gamma_n=0.0351$ eV 19.
S(n)+11.960 12		(1)	52 3	$2g\Gamma_n=0.16$ eV 4.

[†] Resonance strength= $g\Gamma_n\Gamma_\gamma/\Gamma$ in meV; where g =statistical weight factor= $(2J+1)/[(2s+1)(2I+1)]$, where J =spin of resonance, $s=1/2$ for neutron, I =target spin= $3/2^-$.