

⁶⁰Ni(n,γ),(n,n):resonances 2018MuZY

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	20-Jan-2020

Neutron resonance energies and parameters are from evaluation of 2018MuZY.
 2010Gu19: E(n)=0.100-600 keV; measured E(n), I(n), σ, R-matrix analysis.

⁶¹Ni Levels

E(n)(lab) values are in keV.

E(level) [†]	J ^π [‡]	L	gΓ _n Γ _γ /Γ (eV) [#]	Comments
7817.74? 5	1/2 ⁺	0		E(level): fictitious level from negative value of resonance energy.
7821.41 5	(1/2 ⁻ ,3/2 ⁻)	(1)	0.00025 3	E(n)(Lab)=-2.438 keV, Γ _γ =[1.16] eV.
7822.32 5	3/2 ⁻	1		E(n)(Lab)=1.3263 keV 10, gΓ _n =0.00025 eV 3.
7825.55 5	3/2 ⁻	1	0.038 3	E(n)(Lab)=2.2487 keV 10, gΓ _n =0.0593 eV 6, Γ _γ =0.553 eV 50.
7832.11 5	1/2 ⁻	1	0.16 1	E(n)(Lab)=5.5341 keV 10, gΓ _n =0.041 eV 3, Γ _γ =[0.5] eV.
7832.33 5	1/2 ⁺	0	2.29 17	E(n)(Lab)=12.206 keV 1, gΓ _n =0.24 eV 3, Γ _γ =[0.5] eV.
7833.49 5	1/2 ⁻	1	0.280 2	E(n)(Lab)=12.423 keV 1, gΓ _n =2.349 keV 60, Γ _γ =2.29 eV 17.
7841.04 5	1/2 ⁻	1	0.019 2	E(n)(Lab)=13.606 keV 1, gΓ _n =1.1 eV 3.
7843.52 5	(1/2) ⁻	1	0.23 2	E(n)(Lab)=21.286 keV 2, gΓ _n =0.020 eV 2, Γ _γ =[0.5] eV.
7843.63 5	(3/2 ⁺)	(2)	0.50 1	E(n)(Lab)=23.802 keV 1, gΓ _n =4.7 eV 2, Γ _γ =0.24 eV 2.
7848.10 5	1/2 ⁻	1	0.036 30	E(n)(Lab)=23.912 1, gΓ _n =0.117 eV 40, Γ _γ =0.44 eV 2.
7848.15 5	1/2 ⁻	1	0.097 6	E(n)(Lab)=28.465 2, gΓ _n =0.039 eV 3, Γ _γ =[0.5] eV.
7848.31 5	1/2 ⁺	0	0.41 3	E(n)(Lab)=28.515 2, gΓ _n =0.12 eV 1, Γ _γ =[0.5] eV.
7849.12 5	1/2 ⁻	1	0.041 3	E(n)(Lab)=28.675 1, gΓ _n =685 eV 15, Γ _γ =0.41 eV 3.
7849.89 5	(3/2) ⁻	1	0.38 1	E(n)(Lab)=29.498 2, gΓ _n =0.045 eV 3, Γ _γ =[0.5] eV.
7852.60 5	(1/2) ⁻	1	0.49 2	E(n)(Lab)=30.279 1, gΓ _n =0.8 eV 2, Γ _γ =0.36 eV 2.
7852.97 5	(1/2) ⁻	1	0.29 2	E(n)(Lab)=33.039 2, gΓ _n =8.0 eV 3, Γ _γ =0.52 eV 2.
7859.02 5	(3/2) ⁻	1	0.52 2	E(n)(Lab)=33.414 2, gΓ _n =9.8 eV 3, Γ _γ =0.30 eV 2.
7862.14 5	(1/2) ⁻	1	0.31 1	E(n)(Lab)=39.560 1, gΓ _n =2.3 eV 1, Γ _γ =0.34 eV 2.
7862.41 5	1/2 ⁻	1	0.39 2	E(n)(Lab)=42.735 1, gΓ _n =1.4 eV 2, Γ _γ =0.40 eV 2.
7862.53 5	1/2 ⁺	0	0.18 2	E(n)(Lab)=43.007 2, gΓ _n =2 eV.
7866.89 5	1/2 ⁻	1	0.08 1	E(n)(Lab)=43.133 1, gΓ _n =101.4 eV 30, Γ _γ =0.18 eV 2.
7866.95 5	(3/2) ⁻	1	0.92 2	E(n)(Lab)=47.567 5, gΓ _n =0.1 eV.
7866.98 5	1/2 ⁻	1	0.92 2	E(n)(Lab)=47.630 3, gΓ _n =1.7 eV 2, Γ _γ =1.00 eV 3.
7869.12 5	1/2 ⁻	1	0.32 2	E(n)(Lab)=47.658 5, gΓ _n =0.6 eV 1, Γ _γ =0.6 eV.
7870.23 5	1/2 ⁻	1	0.14 1	E(n)(Lab)=49.835 1, gΓ _n =0.64 eV, Γ _γ =0.64 eV 8.
7870.88 5	(3/2 ⁺)	(2)	0.48 1	E(n)(Lab)=50.963 2, gΓ _n =0.20 eV 2, Γ _γ =[0.5] eV.
7871.93 5	1/2 ⁻	1	0.10 1	E(n)(Lab)=51.628 1, gΓ _n =0.85 eV 5, Γ _γ =0.55 eV 2.
7875.51 5	(3/2 ⁺ ,5/2 ⁺)	(2)	0.29 1	E(n)(Lab)=52.696 3, gΓ _n =0.13 eV 2, Γ _γ =[0.5] eV.
7876.09 5	1/2 ⁻	1	0.45 1	J ^π : 2018MuZY list (1/2) which seems inconsistent with L=(2).
7883.96 5	1/2 ⁻	1	0.05 2	E(n)(Lab)=56.331 1, gΓ _n =0.60 eV 5, Γ _γ =0.56 eV 3.
7884.12 5	1/2 ⁻	1	0.18 1	E(n)(Lab)=56.919 1, gΓ _n <0.62 eV, Γ _γ =1.64 eV 10.
7884.27 5	1/2 ⁺	0	1.10 6	E(n)(Lab)=64.92 1.
7884.65 5	(3/2) ⁻	1	0.99 3	E(n)(Lab)=65.091 6, gΓ _n =0.29 eV 3, Γ _γ =[0.5] eV.
7890.35 5	(3/2 ⁺)	(2)	0.39 1	E(n)(Lab)=65.238 1, gΓ _n =434 eV 8, Γ _γ =1.10 eV 6.
7892.16 5	(3/2) ⁻	1	0.57 2	E(n)(Lab)=65.623 2, gΓ _n <2.4 eV, Γ _γ =0.84 eV 4.
7897.10 5	1/2 ⁻	1	0.21 3	E(n)(Lab)=71.424 2, gΓ _n <0.75 eV.
7898.90 5	(3/2) ⁻	1	0.44 1	E(n)(Lab)=73.262 1, gΓ _n =2.0 eV 1, Γ _γ =0.4 eV 2.
7900.79 5	(1/2) ⁻	1	0.23 1	E(n)(Lab)=78.286 2, gΓ _n <0.8 eV.
7903.76 5	(3/2) ⁻	1	0.42 1	E(n)(Lab)=80.117 2, gΓ _n <0.9 eV, Γ _γ =0.43 eV 3.
7904.92 5	(3/2) ⁻	1	1.22 30	E(n)(Lab)=82.042 3, gΓ _n =0.45 eV, Γ _γ =0.47 eV 4.
7905.57 5	1/2 ⁺	0	0.31 4	E(n)(Lab)=85.055 1, gΓ _n <1 eV.
				E(n)(Lab)=86.242 2, gΓ _n =3.0 eV 2, Γ _γ =1.00 eV 4.
				E(n)(Lab)=86.903 1, gΓ _n =387 eV 11, Γ _γ =0.31 eV 4.

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⁶⁰Ni(n,γ),(n,n):resonances 2018MuZY (continued)

⁶¹Ni Levels (continued)

E(level) [†]	J ^{π‡}	L	gΓ _n Γ _γ /Γ (eV) [#]	Comments
7906.61 5	(3/2) ⁻	1	0.73 50	E(n)(Lab)=87.959 2, gΓ _n =11.6 eV 3, Γ _γ =0.39 eV 3.
7908.44 5	1/2 ⁻	1	0.22 1	E(n)(Lab)=89.817 5, gΓ _n =0.5 eV, Γ _γ =0.40 eV 4.
7910.31 5	(1/2) ⁻	1	0.35 2	E(n)(Lab)=91.722 5, gΓ _n =6.7 eV 3, Γ _γ =0.37 eV 2.
7912.40 5	(3/2) ⁻	1	0.57 2	E(n)(Lab)=93.845 5, gΓ _n =3.2 eV 5, Γ _γ =0.35 eV 3.
7914.10 5	1/2 ⁻	1	0.16 1	E(n)(Lab)=95.573 5, gΓ _n =0.23 eV 2, Γ _γ =[0.5] eV.
7915.63 5	(3/2) ⁻	1	0.53 3	E(n)(Lab)=97.130 5, gΓ _n =3.2 eV 2, Γ _γ =0.32 eV 2.
7916.57 5	1/2 ⁺	0	0.34 7	E(n)(Lab)=98.083 1, gΓ _n =983 eV 19, Γ _γ =0.34 eV 7.
7917.95 5	(3/2) ⁻	1	0.87 40	E(n)(Lab)=99.482 5, gΓ _n =8.0 eV 6, Γ _γ =0.49 eV 3.
7920.58 5	1/2 ⁻	1	0.19 1	E(n)(Lab)=102.16 1, gΓ _n =0.31 eV 3.
7926.25 5	1/2 ⁺	0	0.72 6	E(n)(Lab)=107.93 1, gΓ _n =634 eV 15, Γ _γ =0.72 eV 6.
7926.85 5	3/2 ⁻	1	0.8 3	E(n)(Lab)=108.540 5, gΓ _n =3 eV 2, Γ _γ =0.55 eV.
7929.84 5	(3/2 ⁺)	(2)	1.42 3	E(n)(Lab)=111.58 1, gΓ _n =5 eV 1, Γ _γ =0.99 eV 11.
7930.33 5	(1/2) ⁻	1	0.38 3	E(n)(Lab)=112.08 1, gΓ _n =2.5 eV 5, Γ _γ =0.45 eV 4.
7930.60 5	(1/2) ⁻	1	0.47 4	E(n)(Lab)=112.35 1, gΓ _n =3.5 eV 5, Γ _γ =0.54 eV 5.
7931.64 5	(3/2) ⁻	1	0.75 5	E(n)(Lab)=113.410 5, gΓ _n =3.0 eV 5, Γ _γ =0.50 eV 4.
7932.19 5	1/2 ⁻	1	0.028 4	E(n)(Lab)=113.97 2, gΓ _n =0.030 eV 4, Γ _γ =[0.5] eV.
7938.62 5	1/2 ⁻	1	0.12 3	E(n)(Lab)=120.50 1, gΓ _n =0.16 eV 5, Γ _γ =[0.5] eV.
7938.75 5	(3/2 ⁺)	(2)	0.76 10	E(n)(Lab)=120.64 1, gΓ _n =7.5 eV 3, Γ _γ =0.42 eV 6.
7939.07 5	(3/2) ⁻	1	1.05 40	E(n)(Lab)=120.96 1, gΓ _n =2.6 eV 2, Γ _γ =0.88 eV 6.
7941.80 5	(3/2) ⁻	1	0.68 5	E(n)(Lab)=123.740 1, gΓ _n =32.5 eV 10, Γ _γ =0.35 eV 3.
7942.19 5			0.061 15	E(n)(Lab)=124.13 1, gΓ _n =0.70 eV 2, Γ _γ =[0.5] eV.
7945.44 5			0.022 5	E(n)(Lab)=127.44 1, gΓ _n =0.023 eV 6, Γ _γ =[0.5] eV.
7945.77 5	(1/2) ⁻	1	0.48 4	E(n)(Lab)=127.78 1, gΓ _n =68.4 eV 10, Γ _γ =0.48 eV 4.
7947.85 5	(3/2) ⁻	1	0.78 2	E(n)(Lab)=129.89 1, gΓ _n <2.5 eV, Γ _γ =0.57 eV 10.
7951.54 5	(3/2) ⁻	1	0.49 4	E(n)(Lab)=133.64 1, gΓ _n =22.9 eV 10, Γ _γ =0.50 eV 4.
7953.50 5	1/2 ⁻	1	0.13 2	E(n)(Lab)=135.63 2, gΓ _n =0.18 eV 3, Γ _γ =[0.5] eV.
7953.99 5	(3/2) ⁻	1	1.02 5	E(n)(Lab)=136.13 1, gΓ _n =17.5 eV 10, Γ _γ =0.54 eV 3.
7954.26 5	(3/2) ⁻	1	1.59 3	E(n)(Lab)=136.41 1, gΓ _n =7.5 eV 6, Γ _γ =1.00 eV 2.
7955.18 5	1/2 ⁻ , 3/2 ⁻	1	0.076 14	E(n)(Lab)=137.34 2, gΓ _n =0.09 eV 2, Γ _γ =[0.5] eV.
7955.41 5	(1/2) ⁻	1	0.45 3	E(n)(Lab)=137.58 1, gΓ _n =5.6 eV 3, Γ _γ =0.49 eV 3.
7956.99 5	1/2 ⁺	0	0.70 6	E(n)(Lab)=139.18 1, gΓ _n =31.6 eV 17, Γ _γ =0.72 eV 6.
7957.47 5	(3/2) ⁻	1	1.05 5	E(n)(Lab)=139.67 2, gΓ _n =24.2 eV 10, Γ _γ =0.55 eV 3.
7957.82 5	1/2 ⁽⁻⁾	(1)	0.70 6	E(n)(Lab)=140.03 1, gΓ _n =33.6 eV 10, Γ _γ =0.72 eV 6.
7957.94 5			1.06 5	E(n)(Lab)=140.15 1, gΓ _n =5 eV, Γ _γ =1.35 eV 15.
7962.96 5	1/2 ⁻	1	0.045 8	E(n)(Lab)=145.25 1, gΓ _n =0.048 eV 10, Γ _γ =[0.5] eV.
7963.57 5			0.97 4	E(n)(Lab)=145.87 1, gΓ _n =1 eV, Γ _γ =0.59 eV 5.
7965.31 5	1/2 ⁻ , 3/2 ⁻	1	0.045 9	E(n)(Lab)=147.64 2, gΓ _n =0.054 eV 10, Γ _γ =[0.5] eV.
7966.57 5	(3/2 ⁺)	(2)	0.97 4	E(n)(Lab)=148.92 1, gΓ _n =9.1 eV 6, Γ _γ =0.54 eV 2.
7969.14 5	(1/2) ⁻	1	0.39 3	E(n)(Lab)=151.54 1, gΓ _n =15.6 eV 10, Γ _γ =0.40 eV 3.
7972.03 5	(1/2) ⁻	1	0.50 4	E(n)(Lab)=154.48 1, gΓ _n =163 eV 4, Γ _γ =0.50 eV 4.
7974.03 5	1/2 ⁺	0	0.38 3	E(n)(Lab)=156.51 1, gΓ _n =472 eV 10, Γ _γ =0.38 eV 3.
7974.31 5	1/2 ⁻ , 3/2 ⁻	1	0.02 1	E(n)(Lab)=156.80 2, gΓ _n =0.021 eV 6, Γ _γ =[0.5] eV.
7977.80 5	(1/2) ⁻	1	0.57 3	E(n)(Lab)=160.34 1, gΓ _n =21.9 eV 10, Γ _γ =0.59 eV 3.
7978.80 5			0.034 8	E(n)(Lab)=161.36 1, gΓ _n =0.036 eV 9, Γ _γ =[0.5] eV.
7979.27 5	1/2 ⁺	0	0.57 30	E(n)(Lab)=161.84 1, gΓ _n =1.330 keV 27, Γ _γ =0.57 eV 3.
7979.72 5	1/2 ⁻	1	1.04 4	E(n)(Lab)=162.30 2, gΓ _n =[10] eV, Γ _γ =1.16 eV 5.
7983.71 5	(3/2 ⁺)	(2)	0.98 5	E(n)(Lab)=166.35 1, gΓ _n <3 eV, Γ _γ =0.73 eV 5.
7984.67 5	(3/2 ⁺)	(2)	1.75 6	E(n)(Lab)=167.33 1, gΓ _n =7.4 eV 8, Γ _γ =1.15 eV 6.
7985.09 5	1/2 ⁻	1	0.36 2	E(n)(Lab)=167.76 2, gΓ _n =1.26 eV 25, Γ _γ =[0.5] eV.
7988.02 5	(3/2 ⁺)	(2)	1.32 5	E(n)(Lab)=170.74 1, gΓ _n =4 eV 1, Γ _γ =0.99 eV 19.
7989.52 5	1/2 ⁻	1	0.15 3	E(n)(Lab)=172.26 2, gΓ _n =0.22 eV 6, Γ _γ =[0.5] eV.
7990.02 5	1/2 ⁻	1	0.44 2	E(n)(Lab)=172.77 2, gΓ _n =11.1 eV, Γ _γ =0.74 eV 6.
7991.91 5	(1/2) ⁻	1	0.25 3	E(n)(Lab)=174.69 2, gΓ _n =12.1 eV 5, Γ _γ =0.26 eV 3.
7992.31 5	(3/2) ⁻	1	0.83 7	E(n)(Lab)=175.10 2, gΓ _n =4 eV 1, Γ _γ =0.52 eV 4.
7997.21 5	1/2 ⁻	1	0.52 3	E(n)(Lab)=180.08 2, gΓ _n =[1.6] eV, Γ _γ =0.77 eV 6.
8000.08 5	3/2 ⁻	1	0.92 6	E(n)(Lab)=183.00 2, gΓ _n =77.3 eV 16, Γ _γ =0.47 eV 3.

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⁶⁰Ni(n,γ),(n,n):resonances 2018MuZY (continued)

⁶¹Ni Levels (continued)

E(level) [†]	Jπ [‡]	L	gΓ _n Γ _γ /Γ (eV) [#]	Comments
8000.75 5	(1/2) ⁻	1	0.72 4	E(n)(Lab)=183.68 2, gΓ _n =12.9 eV 5, Γ _γ =0.76 eV 4.
8003.04 5	1/2 ⁺	0	0.50 18	E(n)(Lab)=186.01 1, gΓ _n =5.38 keV 14, Γ _γ =0.50 eV 18.
8003.83 5	1/2 ⁻ ,3/2 ⁻	1	0.86 5	E(n)(Lab)=186.81 1, gΓ _n <2 eV.
8008.54 11	1/2 ⁻ ,3/2 ⁻	1	0.032 9	E(n)(Lab)=191.6 1, gΓ _n =0.034 eV 10, Γ _γ =[0.5] eV.
8009.70 5	3/2 ⁻	1	0.66 4	E(n)(Lab)=192.78 2, gΓ _n =63.3 eV 16, Γ _γ =0.33 eV 2.
8011.23 5	(3/2) ⁻	1	0.97 6	E(n)(Lab)=194.34 1, gΓ _n =18.7 eV 12, Γ _γ =0.51 eV 3.
8011.49 6			0.49 4	E(n)(Lab)=194.60 3, gΓ _n =0.96 eV 14, Γ _γ =[0.5] eV.
8012.88 5			0.13 2	E(n)(Lab)=196.01 1, gΓ _n =0.17 eV 3, Γ _γ =[0.5] eV.
8013.63 5			1.16 5	E(n)(Lab)=196.78 1, gΓ _n <5 eV.
8015.79 5	1/2 ⁺	0	0.69 14	E(n)(Lab)=198.97 1, gΓ _n =3.025 keV 75, Γ _γ =0.83 eV 14.
8017.67 6	1/2 ⁺	0	0.43 5	E(n)(Lab)=200.88 3, gΓ _n =23.8 eV 12, Γ _γ =0.44 eV 5.
8018.37 6	5/2 ⁺	2	1.47 12	E(n)(Lab)=201.60 3, gΓ _n =156 eV 2, Γ _γ =0.50 eV 4.
8019.47 6	(1/2) ⁻	1	0.35 3	E(n)(Lab)=202.72 3, gΓ _n =3 eV, Γ _γ =0.40 eV 3.
8022.84 6	(1/2) ⁻	1	0.48 5	E(n)(Lab)=206.14 3, gΓ _n =34.2 eV 10, Γ _γ =0.49 eV 5.
8023.41 6	(1/2) ⁻	1	0.48 4	E(n)(Lab)=206.72 3, gΓ _n =141.9 eV 40, Γ _γ =0.48 eV 4.
8025.45 7	1/2 ⁻ ,3/2 ⁻	1	0.034 9	E(n)(Lab)=208.80 5, gΓ _n =3 eV, Γ _γ =0.39 eV 4.
8025.75 7			0.16 2	E(n)(Lab)=209.10 5, gΓ _n =0.24 eV 5, Γ _γ =[0.5] eV.
8026.56 7			0.12 2	E(n)(Lab)=209.92 5, gΓ _n =0.15 eV 5, Γ _γ =[0.5] eV.
8029.67 7			0.12 2	E(n)(Lab)=213.09 5, gΓ _n =0.15 eV 5, Γ _γ =[0.5] eV.
8030.90 6	(3/2) ⁻	1	0.77 6	E(n)(Lab)=214.34 3, gΓ _n =126 eV 6, Γ _γ =0.39 eV 3.
8031.47 5	(3/2) ⁻	1	0.99 6	E(n)(Lab)=214.92 2, gΓ _n =4 eV 1, Γ _γ =0.66 eV 10.
8036.73 6	(1/2) ⁻	1	0.35 4	E(n)(Lab)=220.27 3, gΓ _n =76.3 eV 20, Γ _γ =0.35 eV 4.
8037.28 5	(3/2) ⁻	1	1.37 12	E(n)(Lab)=220.82 2, gΓ _n =32 eV 1, Γ _γ =0.72 eV 6.
8037.61 5	(3/2)		0.62 6	E(n)(Lab)=221.16 2, gΓ _n =80 eV 4, Γ _γ =0.31 eV 3.
8040.47 7			0.087 19	E(n)(Lab)=224.07 5, gΓ _n =0.11 eV 6, Γ _γ =[0.5] eV.
8042.85 5	1/2 ⁻	1	0.50 4	E(n)(Lab)=226.49 2, gΓ _n <2 eV.
8045.75 5	(3/2) ⁻	1	2.30 16	E(n)(Lab)=229.44 2, gΓ _n =17.6 eV 16, Γ _γ =1.32 eV 8.
8046.69 5	5/2 ⁺	2	2.27 46	E(n)(Lab)=230.39 2, gΓ _n =107.4 eV 20, Γ _γ =0.77 eV 16.
8049.99 6	(3/2) ⁻	1	0.74 6	E(n)(Lab)=233.75 3, gΓ _n =15.0 eV 7, Γ _γ =0.39 eV 3.
8050.35 6	(3/2) ⁻	1	0.79 7	E(n)(Lab)=234.11 3, gΓ _n =9 eV 2, Γ _γ =0.43 eV 4.
8051.51 6	1/2 ⁻ ,3/2 ⁻	1	0.58 3	E(n)(Lab)=235.29 3, gΓ _n <2 eV.
8053.09 5	(3/2) ⁻	1	1.48 11	E(n)(Lab)=236.90 2, gΓ _n =12 eV 2, Γ _γ =0.84 eV 6.
8054.39 6	1/2 ⁻	1	1.10 5	E(n)(Lab)=238.22 3, gΓ _n <2 eV.
8054.64 6	(1/2) ⁻	1	0.44 5	E(n)(Lab)=238.48 3, gΓ _n =17 eV 2, Γ _γ =0.45 eV 5.
8060.35 6	(3/2) ⁻	1	0.62 4	E(n)(Lab)=244.28 3, gΓ _n =2.5 eV, Γ _γ =0.41 eV 2.
8062.88 7	1/2,3/2 ⁻	1	0.15 2	E(n)(Lab)=246.86 5, gΓ _n =0.21 eV 4, Γ _γ =[0.5] eV.
8065.03 6	3/2 ⁻	1	1.89 14	E(n)(Lab)=249.04 3, gΓ _n =84 eV 6, Γ _γ =0.97 eV 7.
8068.04 5	1/2 ⁺	0	0.95 9	E(n)(Lab)=252.10 1, gΓ _n =0.566 keV 30, Γ _γ =0.95 eV 9.
8068.56 7	(3/2) ⁻	1	0.71 6	E(n)(Lab)=252.63 5, gΓ _n =5 eV 1, Γ _γ =0.41 eV 3.
8069.24 7	3/2 ⁻	1	0.76 8	E(n)(Lab)=253.32 5, gΓ _n =264 eV 3, Γ _γ =0.38 eV 4.
8070.18 7			0.05 1	E(n)(Lab)=254.28 5, gΓ _n =0.06 eV 2, Γ _γ =[0.5] eV.
8070.52 7	(1/2) ⁻	1	0.27 4	E(n)(Lab)=254.62 5, gΓ _n =36 eV 4, Γ _γ =0.27 eV 4.
8072.04 5	1/2 ⁺	0	1.13 20	E(n)(Lab)=256.17 1, gΓ _n =887 eV 17, Γ _γ =1.13 eV 20.
8072.14 7	(3/2) ⁻	1	1.1 8	E(n)(Lab)=256.27 5, gΓ _n =11 eV 1, Γ _γ =0.61 eV 8.
8073.34 7	(1/2) ⁻	1	0.17 4	E(n)(Lab)=257.49 5, gΓ _n =23 eV 3, Γ _γ =0.17 eV 4.
8073.74 5	1/2 ⁺	0	0.59 9	E(n)(Lab)=257.90 1, gΓ _n =1.840 keV 45, Γ _γ =0.59 eV 9.
8074.54 7	(3/2) ⁻	1	0.73 9	E(n)(Lab)=258.71 5, gΓ _n =13 eV 1, Γ _γ =0.39 eV 5.
8075.83 11	1/2 ⁻ ,3/2 ⁻	1	0.14 2	E(n)(Lab)=260.02 10, gΓ _n =0.20 eV 4, Γ _γ =[0.5] eV.
8076.85 7	(1/2) ⁻	1	0.55 5	E(n)(Lab)=261.06 5, gΓ _n =51 eV 2, Γ _γ =0.56 eV 5.
8078.37 7	(1/2) ⁻	1	0.33 4	E(n)(Lab)=262.61 5, gΓ _n <6 eV, Γ _γ =0.35 eV 4.
8079.07 7	(3/2) ⁻	1	1.21 11	E(n)(Lab)=263.32 5, gΓ _n =44 eV 4, Γ _γ =0.62 eV 6.
8081.49 7	1/2 ⁻ ,3/2 ⁻	1	0.083 14	E(n)(Lab)=265.78 5, gΓ _n =0.10 eV 2, Γ _γ =[0.5] eV.
8081.96 7	1/2 ⁻	1	0.64 6	E(n)(Lab)=266.26 5, gΓ _n =58 eV 2, Γ _γ =0.65 eV 6.
8084.42 7	1/2 ⁻	1	0.44 4	E(n)(Lab)=268.76 5, gΓ _n =1.5 eV, Γ _γ =0.62 eV 8.
8084.80 7	(3/2) ⁻	1	0.85 7	E(n)(Lab)=269.14 5, gΓ _n =58.6 eV 60, Γ _γ =0.43 eV 4.
8085.06 7	(3/2) ⁻	1	0.79 9	E(n)(Lab)=269.41 5, gΓ _n =28.4 eV 30, Γ _γ =0.41 eV 5.

Continued on next page (footnotes at end of table)

⁶⁰Ni(n,γ),(n,n):resonances 2018MuZY (continued)

⁶¹Ni Levels (continued)

E(level) [†]	J ^π [‡]	L	gΓ _n Γ _γ /Γ (eV) [#]	Comments
8089.34 7	1/2 ⁻	1	0.15 5	E(n)(Lab)=273.76 5, gΓ _n =0.22 eV 10, Γ _γ =[0.5] eV.
8089.53 7			0.10 3	E(n)(Lab)=273.95 5, gΓ _n =0.12 eV 5, Γ _γ =[0.5] eV.
8092.59 7	1/2 ⁻	1	0.64 2	E(n)(Lab)=277.07 5, gΓ _n =1.2 eV.
8092.87 7	(3/2 ⁺)	(2)	1.78 15	E(n)(Lab)=277.35 5, gΓ _n =44.4 eV 40, Γ _γ =0.99 eV 8.
8093.95 7	3/2 ⁻	1	0.72 12	E(n)(Lab)=278.45 5, gΓ _n =367 eV 11, Γ _γ =0.36 eV 6.
8094.84 5	1/2 ⁺	0	0.39 4	E(n)(Lab)=279.35 1, gΓ _n =250 eV 25, Γ _γ =0.39 eV 4.
8095.85 7	3/2 ⁻	1	0.94 10	E(n)(Lab)=280.38 5, gΓ _n =145 eV 8, Γ _γ =0.47 eV 5.
8097.36 7	(1/2) ⁻	1	0.28 4	E(n)(Lab)=281.92 5, gΓ _n =14.6 eV 50, Γ _γ =0.29 eV 4.
8098.36 7	(3/2) ⁻	1	1.85 19	E(n)(Lab)=282.93 5, gΓ _n =175 eV 12, Γ _γ =0.94 eV 10.
8098.77 7	3/2 ⁻	1	1.38 16	E(n)(Lab)=283.35 5, gΓ _n =108 eV 18, Γ _γ =0.70 eV 8.
8101.08 7	1/2 ⁻	1	0.30 3	E(n)(Lab)=285.70 5, gΓ _n =0.74 eV 16, Γ _γ =[0.5] eV.
8104.03 7	(1/2) ⁻	1	0.54 32	E(n)(Lab)=288.70 5, gΓ _n =1.7 eV, Γ _γ =0.79 eV 47.
8106.24 7	(1/2) ⁻	1	1.02 5	E(n)(Lab)=290.95 5, gΓ _n =37 eV 3, Γ _γ =0.50 eV 3.
8107.48 5	1/2 ⁺	0	0.47 4	E(n)(Lab)=292.21 1, gΓ _n =143.6 eV 40, Γ _γ =0.47 eV 4.
8108.22 7	3/2 ⁻	1	1.20 6	E(n)(Lab)=292.96 5, gΓ _n =148 eV 3, Γ _γ =0.61 eV 3.
8109.15 9			0.20 3	E(n)(Lab)=293.90 7, gΓ _n =0.33 eV 7, Γ _γ =[0.5] eV.
8109.61 9	(1/2) ⁻	1	0.62 7	E(n)(Lab)=294.37 7, gΓ _n =15 eV 2, Γ _γ =0.65 eV 8.
8109.98 9	(1/2) ⁻	1	0.20 7	E(n)(Lab)=294.75 7, gΓ _n =9 eV 1, Γ _γ =0.21 eV 7.
8111.21 9	1/2 ⁻	1	0.64 4	E(n)(Lab)=296.00 7, gΓ _n =144 eV 4, Γ _γ =0.64 eV 4.
8112.78 11	1/2 ⁻	1	0.31 3	E(n)(Lab)=297.6 1, gΓ _n =138 eV 4, Γ _γ =0.31 eV 3.
8114.83 9	1/2 ⁻	1	0.21 2	E(n)(Lab)=299.68 7, gΓ _n =2 eV.
8115.72 9	3/2 ⁺	2	1.33 7	E(n)(Lab)=300.59 7, gΓ _n =59.6 eV 30, Γ _γ =0.65 eV 4.
8117.50 7	3/2 ⁺	2	1.59 7	E(n)(Lab)=302.40 5, gΓ _n =17.4 eV 20, Γ _γ =0.88 eV 4.
8121.65 11	(3/2) ⁻	1	1.03 8	E(n)(Lab)=306.62 10, gΓ _n =429 eV 13, Γ _γ =0.52 eV 4.
8122.64 7	3/2 ⁻	1	2.24 10	E(n)(Lab)=307.62 5, gΓ _n =200 eV 10, Γ _γ =1.13 eV 5.
8123.21 7			0.48 5	E(n)(Lab)=308.20 5, gΓ _n =0.92 eV 20, Γ _γ =[0.5] eV.
8123.96 11	(3/2) ⁻	1	0.74 4	E(n)(Lab)=308.96 10, gΓ _n =3 eV, Γ _γ =0.49 eV 2.
8125.72 7			0.16 3	E(n)(Lab)=310.75 5, gΓ _n =0.24 eV 6, Γ _γ =[0.5] eV.
8126.53 11	(1/2) ⁻	1	0.46 4	E(n)(Lab)=311.58 10, gΓ _n =12.7 eV 20, Γ _γ =0.48 eV 4.
8127.73 7			0.27 3	E(n)(Lab)=312.80 5, gΓ _n =0.59 eV 15, Γ _γ =[0.5] eV.
8128.67 11	(3/2 ⁺)	(2)	1.54 6	E(n)(Lab)=313.75 10, gΓ _n =10 eV 2, Γ _γ =0.91 eV 3.
8132.06 5	1/2 ⁺	0	1.15 42	E(n)(Lab)=317.20 1, gΓ _n =2.866 keV 75, Γ _γ =1.15 eV 42.
8132.08 11	(5/2 ⁺)	(2)	2.16 9	E(n)(Lab)=317.22 10, gΓ _n <12 eV, Γ _γ =0.89 eV 3.
8133.27 7			0.29 3	E(n)(Lab)=318.43 5, gΓ _n =0.7 eV 2, Γ _γ =[0.5] eV.
8136.56 11	3/2 ⁻	1	0.99 7	E(n)(Lab)=321.78 10, gΓ _n =20 eV 5, Γ _γ =0.52 eV 4.
8137.63 11	(1/2) ⁻	1	0.52 7	E(n)(Lab)=322.86 10, gΓ _n =5.2 eV 5, Γ _γ =0.58 eV 8.
8139.38 11	1/2 ⁻	1	0.14 4	E(n)(Lab)=324.64 10, gΓ _n =0.20 eV 7, Γ _γ =[0.5] eV.
8140.03 5	1/2 ⁺	0	2.86 60	E(n)(Lab)=325.30 1, gΓ _n =7.27 keV 19, Γ _γ =2.86 eV 60.
8141.11 11	1/2 ⁻	1	0.57 6	E(n)(Lab)=326.4 1, gΓ _n =3 eV.
8142.30 11	3/2 ⁺	2	2.71 10	E(n)(Lab)=327.61 10, gΓ _n =16 eV 2, Γ _γ =1.63 eV 5.
8143.99 7	(1/2) ⁻	1	0.66 8	E(n)(Lab)=329.31 5, gΓ _n =40 eV 4, Γ _γ =0.67 eV 8. Uncertainty of 0.5 keV listed for E(n) in 2018MuZY seems too large. Evaluator assigns 0.05 keV.
8144.46 11	1/2 ⁻	1	0.69 7	E(n)(Lab)=329.81 10, gΓ _n =2.2 eV.
8145.91 11	1/2 ⁻	1	0.57 4	E(n)(Lab)=331.28 10, gΓ _n =1.3 eV.
8148.98 11	3/2 ⁻	1	1.15 8	E(n)(Lab)=334.41 10, gΓ _n =230 eV, Γ _γ =0.58 eV 8.
8150.45 7	[1/2] ⁻	1	0.78 8	E(n)(Lab)=335.90 5, gΓ _n =27.4 eV 30, Γ _γ =0.80 eV 8.
8150.91 11	3/2 ⁺	2	1.09 16	E(n)(Lab)=336.37 10, gΓ _n =162 eV 3, Γ _γ =1.12 eV 5.
8153.11 5	1/2 ⁺	0	1.75 42	E(n)(Lab)=338.60 1, gΓ _n =3.560 keV 90, Γ _γ =2.5 eV 6.
8153.73 11	1/2 ⁻	1	0.41 2	E(n)(Lab)=339.23 10, gΓ _n =2.26 eV 70, Γ _γ =[0.5] eV.
8155.86 11	1/2 ⁻	1	0.47 7	E(n)(Lab)=341.4 1, gΓ _n =110 eV 10, Γ _γ =0.20 eV 3.
8156.08 11	1/2 ⁻	1	0.64 7	E(n)(Lab)=341.62 10, gΓ _n =105 eV 3, Γ _γ =0.65 eV 7.
8157.30 11	1/2 ⁻	1	1.01 12	E(n)(Lab)=342.87 10, gΓ _n =210 eV 4, Γ _γ =1.01 eV 12.
8158.49 11	(3/2 ⁺)	(2)	1.41 8	E(n)(Lab)=344.08 10, gΓ _n =4 eV, Γ _γ =1.09 eV 10.
8159.92 11	1/2 ⁻	1	0.96 7	E(n)(Lab)=345.53 10, gΓ _n =2 eV, Γ _γ =1.86 eV 25.
8162.76 5	(5/2 ⁺)	(2)	4.08 20	E(n)(Lab)=348.42 1, gΓ _n =94 eV 3, Γ _γ =1.42 eV 7.
8163.38 11	[1/2] ⁻	1	1.10 19	E(n)(Lab)=349.05 10, gΓ _n =27 eV 1, Γ _γ =1.12 eV 20.

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⁶⁰Ni(n,γ),(n,n):resonances 2018MuZY (continued)

⁶¹Ni Levels (continued)

E(level) [†]	J ^{π‡}	L	gΓ _n Γ _γ /Γ (eV) [#]	Comments
8163.98 11	3/2 ⁺	2	1.56 23	E(n)(Lab)=349.66 10, gΓ _n =20 eV 5, Γ _γ =1.61 eV 25.
8164.49 7			0.36 30	E(n)(Lab)=350.18 5, gΓ _n =1.23 eV 40, Γ _γ =[0.5] eV.
8166.78 9	3/2 ⁺	2	1.37 9	E(n)(Lab)=352.50 7, gΓ _n =9 eV 3, Γ _γ =0.81 eV 6.
8168.70 11	3/2 ⁺	2	1.27 16	E(n)(Lab)=354.46 10, gΓ _n =493 eV 4, Γ _γ =0.64 eV 8.
8169.89 11	3/2 ⁺	2	1.33 9	E(n)(Lab)=355.67 10, gΓ _n =30 eV 10, Γ _γ =0.71 eV 5.
8171.95 5	1/2 ⁺	0	1.17 20	E(n)(Lab)=357.76 1, gΓ _n =1.562 keV 60, Γ _γ =1.17 eV 20.
8173.06 11	1/2 ⁻	1	1.74 14	E(n)(Lab)=358.89 10, gΓ _n =10 eV, Γ _γ =1.81 eV 15.
8173.75 11	3/2 ⁻	1	0.95 18	E(n)(Lab)=359.59 10, gΓ _n =1.256 keV 7, Γ _γ =0.47 eV 90.
8175.35 11	1/2 ⁻	1	0.61 7	E(n)(Lab)=361.22 10, gΓ _n =7 eV, Γ _γ =0.67 eV 8.
8180.09 11	1/2 ⁻	1	1.66 15	E(n)(Lab)=366.04 10, gΓ _n =60 eV 5, Γ _γ =1.69 eV 16.
8182.79 7			0.40 2	E(n)(Lab)=368.78 5, gΓ _n =1.96 eV 60, Γ _γ =[0.5] eV.
8183.04 11	3/2 ⁺	2	3.7 2	E(n)(Lab)=369.04 10, gΓ _n =15 eV 2, Γ _γ =2.5 eV 2.
8183.83 11	1/2 ⁻	1	0.91 11	E(n)(Lab)=369.84 10, gΓ _n <7 eV, Γ _γ =1.05 eV 15.
8184.71 5	3/2 ⁺	2	1.62 14	E(n)(Lab)=370.74 1, gΓ _n =56 eV 15, Γ _γ =0.83 eV 8.
8185.66 5	3/2 ⁺	2	2.21 11	E(n)(Lab)=371.70 1, gΓ _n =6.5 eV, Γ _γ =2.83 eV 18.
8187.03 7	(1/2)		0.20 4	E(n)(Lab)=373.10 5, gΓ _n =0.33 eV 10, Γ _γ =[0.5] eV.
8187.65 11	1/2 ⁻	1	0.17 11	E(n)(Lab)=373.73 10, gΓ _n =30 eV 5, Γ _γ =0.18 eV 11.
8188.71 11	1/2 ⁻	1	0.36 3	E(n)(Lab)=374.8 1, gΓ _n =1.25 eV 35, Γ _γ =[0.5] eV.
8190.77 5	1/2 ⁺	0	2.03 87	E(n)(Lab)=376.90 1, gΓ _n =3.815 keV 50, Γ _γ =2.03 eV 87.
8190.79 11	1/2 ⁻	1	1.12 8	E(n)(Lab)=376.92 10, gΓ _n =7 eV, Γ _γ =1.34 eV 12.
8191.84 7	1/2 ⁻	1	0.61 9	E(n)(Lab)=377.99 5, gΓ _n =4.5 eV, Γ _γ =0.70 eV 12.
8192.51 11	(1/2)		0.30 5	E(n)(Lab)=378.67 10, gΓ _n =0.74 eV 30, Γ _γ =[0.5] eV.
8193.57 11	(1/2 ⁻ , 3/2 ⁻)	(1)		E(n)(Lab)=379.75 10, gΓ _n =70 eV 40.
8193.75 11	3/2 ⁻	1	1.93 14	E(n)(Lab)=379.93 10, gΓ _n =281.0 eV 17.
8195.27 11	1/2 ⁻	1	2.15 14	E(n)(Lab)=381.47 10, gΓ _n =30 eV 2, Γ _γ =2.25 eV 15.
8195.64 11	(1/2)		1.16 11	E(n)(Lab)=381.85 10, gΓ _n =5.0 eV 21.
8196.39 7			0.59 10	E(n)(Lab)=382.61 5, gΓ _n =2 eV, Γ _γ =0.83 eV 20.
8197.30 7	1/2 ⁺	0	1.19 12	E(n)(Lab)=383.54 5, gΓ _n =375 eV 9, Γ _γ =1.19 eV 12.
8199.83 11	(3/2)		0.37 6	E(n)(Lab)=386.11 10, gΓ _n =0.59 eV 16, Γ _γ =[1] eV.
8200.22 7	(1/2)		0.45 4	E(n)(Lab)=386.51 5, gΓ _n =0.4 eV 34, Γ _γ =[0.5] eV.
8201.88 11	3/2 ⁺	2	1.24 20	E(n)(Lab)=388.2 1, gΓ _n =260 eV 5, Γ _γ =0.62 eV 10.
8202.31 11	1/2 ⁻	1	1.37 12	E(n)(Lab)=388.63 10, gΓ _n =160 eV 5, Γ _γ =1.37 eV 6.
8206.93 11	3/2 ⁽⁻⁾	(1)	0.94 16	E(n)(Lab)=393.33 10, gΓ _n =365 eV 10, Γ _γ =0.47 eV 8.
8208.59 11	1/2 ⁻	1	0.21 4	E(n)(Lab)=395.02 10, gΓ _n =0.36 eV 11, Γ _γ =[0.5] eV.
8210.68 11	1/2 ⁻	1	0.56 5	E(n)(Lab)=397.14 10, gΓ _n =0.77 eV 9, Γ _γ =[0.5] eV.
8211.93 11	3/2 ⁺	2	0.40 14	E(n)(Lab)=398.41 10, gΓ _n =460 eV 9, Γ _γ =0.20 eV 7.
8212.76 11	1/2 ⁻	1	0.95 8	E(n)(Lab)=399.26 10, gΓ _n =37 eV 4.
8214.57 11	1/2 ⁻	1	0.69 6	E(n)(Lab)=401.1 1, gΓ _n =3 eV.
8215.80 11	1/2 ⁻	1	1.23 7	E(n)(Lab)=402.35 10, gΓ _n =5.4 eV.
8216.63 11	3/2 ⁻	1	1.72 10	E(n)(Lab)=403.19 10, gΓ _n =425 eV 25, Γ _γ =0.86 eV 5.
8217.35 11	1/2 ⁻	1	0.67 8	E(n)(Lab)=403.93 10, gΓ _n =4 eV.
8217.81 7			0.36 5	E(n)(Lab)=404.39 5, gΓ _n =1.23 eV 60, Γ _γ =[0.5] eV.
8219.22 7			0.16 4	E(n)(Lab)=405.83 5, gΓ _n =0.24 eV 8, Γ _γ =[0.5] eV.
8220.80 11	1/2 ⁻	1	0.27 5	Uncertainty of 0.50 in resonance strength in 2018MuZY seems a misprint. E(n)(Lab)=407.43 10, gΓ _n =30 eV 6, Γ _γ =0.27 eV 5.
8221.67 11	(3/2) ⁻	1	1.42 8	E(n)(Lab)=408.32 10, gΓ _n =20 eV 5, Γ _γ =0.76 eV 4.
8223.60 11	3/2 ⁺	2	1.12 16	E(n)(Lab)=410.28 10, gΓ _n =190 eV 20, Γ _γ =0.56 eV 8.
8227.12 7	1/2 ⁺	0	0.82 7	E(n)(Lab)=413.86 5, gΓ _n =344 eV 9, Γ _γ =0.82 eV 7.
8228.63 11	3/2 ⁺	2	1.5 3	E(n)(Lab)=415.4 1, gΓ _n =400 eV 12, Γ _γ =0.75 eV 15.
8228.93 11	3/2 ⁺	2	2.2 3	E(n)(Lab)=415.7 1, gΓ _n =34 eV 6, Γ _γ =1.18 eV 15.
8231.37 11			0.35 4	E(n)(Lab)=418.18 10, gΓ _n =0.54 eV 10, Γ _γ =[0.5] eV.
8232.11 11			0.41 6	E(n)(Lab)=418.93 10, gΓ _n =68 eV 6, Γ _γ =0.41 eV 6.
8233.27 11	1/2 ⁻	1	1.52 9	E(n)(Lab)=420.11 10, gΓ _n =20 eV 5, Γ _γ =0.78 eV 5.
8235.60 7			0.36 7	E(n)(Lab)=422.48 5, gΓ _n =83 eV 8, Γ _γ =0.36 eV 7.
8235.91 5	1/2 ⁺	0	0.63 20	E(n)(Lab)=422.80 1, gΓ _n =1.806 eV 55, Γ _γ =0.63 eV 2.
8237.29 7			0.20 4	E(n)(Lab)=424.20 5, gΓ _n =0.34 eV 10, Γ _γ =[0.5] eV.

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$^{60}\text{Ni}(n,\gamma),(n,n)$:resonances **2018MuZY** (continued) ^{61}Ni Levels (continued)

E(level) [†]	J ^{π‡}	L	$g\Gamma_n\Gamma_\gamma/\Gamma$ (eV) [#]	Comments
8238.11 11	3/2 ⁺	2	1.76 11	E(n)(Lab)=425.04 10, $g\Gamma_n=74$ eV 5, $\Gamma_\gamma=0.90$ eV 6.
8239.73 11	1/2 ⁻	1	1.07 6	E(n)(Lab)=426.68 10, $g\Gamma_n=5$ eV, $\Gamma_\gamma=0.68$ eV 6.
8240.48 11	1/2 ⁻	1	0.63 6	E(n)(Lab)=427.45 10, $g\Gamma_n=10$ eV, $\Gamma_\gamma=0.68$ eV 6.
8242.84 11	1/2 ⁻	1	0.7 2	E(n)(Lab)=429.84 10, $g\Gamma_n=580$ eV 20, $\Gamma_\gamma=0.7$ eV 2.
8243.62 11	3/2 ⁺	2	0.99 8	E(n)(Lab)=430.64 10, $g\Gamma_n=27$ eV 2, $\Gamma_\gamma=0.51$ eV 8.
8244.39 11	1/2 ⁻	1	0.22 9	E(n)(Lab)=431.42 10, $g\Gamma_n=240$ eV 10, $\Gamma_\gamma=0.22$ eV 9.
8245.48 11	3/2 ⁺	2	1.60 12	E(n)(Lab)=432.53 10, $g\Gamma_n=180$ eV 8, $\Gamma_\gamma=0.81$ eV 6.
8248.80 21	3/2 ⁺	2	0.79 16	E(n)(Lab)=435.9 2, $g\Gamma_n=480$ eV 30, $\Gamma_\gamma=0.40$ eV 8.
8249.99 21	1/2 ⁻	1	0.59 5	E(n)(Lab)=437.12 20, $g\Gamma_n=3$ eV.
8250.93 5	1/2 ⁺	0	0.87 20	E(n)(Lab)=438.07 1, $g\Gamma_n=1.164$ keV 55, $\Gamma_\gamma=0.87$ eV 20.
8251.78 11	3/2 ⁺	2	1.81 11	E(n)(Lab)=438.94 10, $g\Gamma_n=26$ eV 3, $\Gamma_\gamma=0.97$ eV 6.
8252.26 7			0.98 21	E(n)(Lab)=439.42 5, $g\Gamma_n=32$ eV 3.
8252.88 7			0.76 15	E(n)(Lab)=440.05 5, $g\Gamma_n=38$ eV 3.
8253.53 7			1.22 19	E(n)(Lab)=440.71 5, $g\Gamma_n=0.3$ eV 12, $\Gamma_\gamma=[1]$ eV.
8254.16 11	3/2 ⁺	2	1.20 31	E(n)(Lab)=441.36 10, $g\Gamma_n=150$ eV 2, $\Gamma_\gamma=0.61$ eV 16.
8254.91 7			0.68 13	E(n)(Lab)=442.12 5, $g\Gamma_n=1.02$ eV 30, $\Gamma_\gamma=[1]$ eV.
8257.33 21	1/2 ⁺	0	2.51 12	E(n)(Lab)=444.58 20, $g\Gamma_n=163$ eV 14, $\Gamma_\gamma=0.26$ eV 12.
8258.41 7			0.30 4	E(n)(Lab)=445.68 5, $g\Gamma_n=0.70$ eV 22, $\Gamma_\gamma=[0.5]$ eV.
8259.99 21	1/2 ⁻	1	0.45 4	E(n)(Lab)=447.28 20, $g\Gamma_n=1$ eV.
8260.85 7	1/2 ⁺	0	0.11 17	E(n)(Lab)=448.16 5, $g\Gamma_n=2.63$ keV 10.
8261.69 7			0.98 10	E(n)(Lab)=449.01 5, $g\Gamma_n=32$ eV 4.
8262.18 7			0.68 13	E(n)(Lab)=449.51 5, $g\Gamma_n=1.04$ eV 30.
8264.18 7	3/2 ⁻	1	1.36 47	E(n)(Lab)=451.54 5, $g\Gamma_n=131$ eV 8.

[†] Deduced by the evaluator from S(n)+E(n)(c.m.), where S(n)=7820.10 keV 5 for ^{61}Ni (2017Wa10). E(n)(c.m.)=E(n)(lab)[mass of ^{60}Ni /(mass of ^{60}Ni +mass of neutron)].

[‡] Values in square brackets are assumed assignments.

[#] g=statistical weight factor, (2J+1)/2 in this case, where J=spin of resonant state.