^{61}Ni(n,γ),(n,n):resonances 2006Ko28

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Alan L. Nichols, Balraj Singh, Jagdish K. Tuli	NDS 113, 973 (2012)	15-Apr-2012

J^π(^{61}Ni g.s.)=3/2$^-$.

2006Ko28: E(n)=−3.4 keV to 420.0 keV: about 170 resonances; measured transmission spectra, total neutron σ, deduced E(n), resonance parameters, widths, spins using R-matrix analysis. Measurements performed at GELINA, the neutron time-of-flight facility at IRMM.

See also 2006MuZX evaluation for data for 63 resonances from −6.1 keV to 68.8 keV. Energies of 27 resonances are different from those in 2006Ko28.

Earlier work: 2003BrZV (E(n)<100 keV); 1974PaZM (E(n)=15-100 keV); 1969Ho12 (E(n)=0.1 to 200 keV); 1966Go38 (E(n)=30-60 keV).

g=statistical factor.

^{62}Ni Levels

E(level)[†]	J$^\pi$	L	g$\Gamma_0\Gamma_\gamma/\Gamma$ (eV)[‡]	Comments
10592.4? *3*	1$^-$	0		E(level): fictitious level. E(n)(lab)=−3.407 keV *10*, gΓ_n=217.4 eV *5*, Γ_γ=2.2 eV.
10597.1 *3*	1$^-$	0	0.21 *3*	E(n)(lab)=1.35450 keV *6*, gΓ_n=0.127 eV *1*, Γ_γ=0.95 eV *5*.
10598.9 *3*	1$^+$	1	0.085 *20*	E(n)(lab)=3.14400 keV *21*, gΓ_n=0.087 eV *4*, Γ_γ=1.0 eV.
10599.0 *3*	2$^-$	0	0.42 *6*	E(n)(lab)=3.30585 keV *16*, gΓ_n=6.600 eV *22*, Γ_γ=2.2 eV.
10602.0 *3*	1$^+$	1	0.17 *4*	E(n)(lab)=6.3723 keV *6*, gΓ_n=0.179 eV *13*, Γ_γ=1.0 eV.
10602.2 *3*	1$^+$	1	0.47 *10*	E(n)(lab)=6.4804 keV *4*, gΓ_n=0.548 eV *17*, Γ_γ=1.0 eV.
10602.8 *3*	1$^-$	0		E(n)(lab)=7.1300 keV *4*, gΓ_n=23.05 eV *10*, Γ_γ=2.5 eV.
10603.2 *3*	2$^-$	0		E(n)(lab)=7.5317 keV *5*, gΓ_n=117.25 eV *23*, Γ_γ=2.2 eV.
10604.1 *3*	2$^-$	0		E(n)(lab)=8.7223 keV *5*, gΓ_n=5.06 eV *6*, Γ_γ=2.2 eV.
10605.7 *3*	1$^+$	1	0.16 *2*	E(n)(lab)=10.1263 keV *17*, gΓ_n=0.20 eV *3*, Γ_γ=1.0 eV.
10608.2 *3*	2$^-$	0		E(n)(lab)=12.6096 keV *8*, gΓ_n=45.21 eV *24*, Γ_γ=1.8 eV.
10608.9 *3*	1$^+$	1	0.29 *4*	E(n)(lab)=13.3395 keV *20*, gΓ_n=0.42 eV *6*, Γ_γ=1.0 eV.
10609.2 *3*	2$^-$	0		E(n)(lab)=13.6031 keV *9*, gΓ_n=39.98 eV *25*, Γ_γ=1.7 eV.
10609.5 *3*	2$^+$	1		E(n)(lab)=13.9869 keV *9*, gΓ_n=7.04 eV *13*, Γ_γ=3.1 eV.
10609.9 *3*	1$^+$	1	0.31 *5*	E(n)(lab)=14.3750 keV *22*, gΓ_n=0.49 eV *7*, Γ_γ=1.0 eV.
10612.1 *3*	1$^-$	0		E(n)(lab)=16.5843 keV *17*, gΓ_n=305.6 eV *10*, Γ_γ=2.3 eV.
10613.3 *3*	1$^-$	0		E(n)(lab)=17.8155 keV *14*, gΓ_n=56.4 eV *5*, Γ_γ=4.1 eV.
10614.3 *3*	2$^-$	0		E(n)(lab)=18.8345 keV *13*, gΓ_n=42.0 eV *4*, Γ_γ=0.78 eV.
10616.8 *3*	2$^-$	0		E(n)(lab)=21.346 keV *5*, gΓ_n=0.64 eV *13*, Γ_γ=2.2 eV.
10616.9 *3*	1$^+$	1		E(n)(lab)=21.520 keV *3*, gΓ_n=1.09 eV *15*, Γ_γ=1.0 eV.
10619.9 *3*	1$^-$	0		E(n)(lab)=24.5525 keV *21*, gΓ_n=44.0 eV *6*, Γ_γ=1.4 eV.
10623.5 *3*	2$^-$	0	0.56 *2*	E(n)(lab)=28.142 keV *3*, gΓ_n=4.0 eV *3*, Γ_γ=2.2 eV.
10624.3 *3*	1$^-$	0		E(n)(lab)=28.978 keV *3*, gΓ_n=200.3 eV *18*, Γ_γ=2.2 eV.
10624.4 *3*	2$^-$	0		E(n)(lab)=29.112 keV *5*, gΓ_n=2.6 eV *4*, Γ_γ=1.7 eV.
10625.8 *3*	2$^-$	0		E(n)(lab)=30.563 keV *3*, gΓ_n=8.2 eV *5*, Γ_γ=2.0 eV.
10626.3 *3*	1$^-$	0		E(n)(lab)=30.989 keV *4*, gΓ_n=261 eV *3*, Γ_γ=2.2 eV.
10627.0 *3*	2$^-$	0		E(n)(lab)=31.767 keV *4*, gΓ_n=6.2 eV *5*, Γ_γ=2.2 eV.
10627.9 *3*	2$^-$	0		E(n)(lab)=32.636 keV *3*, gΓ_n=131.6 eV *14*, Γ_γ=2.2 eV.
10628.8 *3*	1$^-$	0		E(n)(lab)=33.607 keV *3*, gΓ_n=16.8 eV *7*, Γ_γ=2.8 eV.
10629.8 *3*	1$^+$	1		E(n)(lab)=34.540 keV *11*, gΓ_n=1.3 eV *4*, Γ_γ=1.0 eV.
10632.2 *3*	1$^-$	0		E(n)(lab)=37.028 keV *6*, gΓ_n=26 eV *5*, Γ_γ=2.2 eV.
10632.2 *3*	2$^-$	0		E(n)(lab)=37.056 keV *5*, gΓ_n=55 eV *5*, Γ_γ=2.2 eV.
10632.5 *3*	1$^+$	1		E(n)(lab)=37.333 keV *13*, gΓ_n=1.4 eV *5*, Γ_γ=1.0 eV.
10636.4 *3*	1$^-$	0		E(n)(lab)=41.242 keV *5*, gΓ_n=68.1 eV *16*, Γ_γ=2.2 eV.
10638.6 *3*	2$^-$	0		E(n)(lab)=43.522 keV *5*, gΓ_n=22.5 eV *9*, Γ_γ=2.2 eV.
10640.4 *3*	1$^-$	0		E(n)(lab)=45.381 keV *17*, gΓ_n=13 eV *2*, Γ_γ=2.2 eV.
10640.4 *3*	2$^+$	1		E(n)(lab)=45.40 keV *2*, gΓ_n=8.7 eV *24*, Γ_γ=1.0 eV.
10641.1 *3*	1$^-$	0		E(n)(lab)=46.037 keV *6*, gΓ_n=16.9 eV *11*, Γ_γ=2.2 eV.

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^{61}Ni(n,γ),(n,n):resonances 2006Ko28 (continued)

^{62}Ni Levels (continued)

E(level)†	J$^\pi$	L	Comments
10641.6 *3*	1$^-$	0	E(n)(lab)=46.531 keV *12*, gΓ_n=3.5 eV *7*, Γ_γ=2.2 eV.
10645.3 *3*	2$^-$	0	E(n)(lab)=50.376 keV *6*, gΓ_n=43.6 eV *16*, Γ_γ=2.2 eV.
10645.6 *3*	2$^-$	0	E(n)(lab)=50.594 keV *7*, gΓ_n=11.1 eV *10*, Γ_γ=2.2 eV.
10646.2 *3*	1$^+$	1	E(n)(lab)=51.30 keV *4*, gΓ_n=1.3 eV *8*, Γ_γ=1.0 eV.
10646.4 *3*	1$^+$	1	E(n)(lab)=51.442 keV *22*, gΓ_n=2.2 eV *9*, Γ_γ=1.0 eV.
10647.3 *3*	1$^+$	1	E(n)(lab)=52.46 keV *3*, gΓ_n=1.6 eV *8*, Γ_γ=1.0 eV.
10648.1 *3*	2$^-$	0	E(n)(lab)=53.194 keV *6*, gΓ_n=89.6 eV *22*, Γ_γ=2.2 eV.
10649.6 *3*	1$^-$	0	E(n)(lab)=54.667 keV *7*, gΓ_n=74 eV *3*, Γ_γ=2.2 eV.
10651.3 *3*	2$^-$	0	E(n)(lab)=56.392 keV *7*, gΓ_n=79.3 eV *23*, Γ_γ=2.2 eV.
10652.8 *3*	2$^-$	0	E(n)(lab)=57.928 keV *8*, gΓ_n=33.0 eV *20*, Γ_γ=2.2 eV.
10653.0 *3*	2$^-$	0	E(n)(lab)=58.141 keV *7*, gΓ_n=50.0 eV *22*, Γ_γ=2.2 eV.
10654.1 *3*	1$^+$	1	E(n)(lab)=59.264 keV *23*, gΓ_n=3.4 eV *11*, Γ_γ=1.0 eV.
10655.5 *3*	2$^-$	0	E(n)(lab)=60.658 keV *12*, gΓ_n=10.1 eV *16*, Γ_γ=2.2 eV.
10655.6 *3*	2$^-$	0	E(n)(lab)=60.816 keV *11*, gΓ_n=12.5 eV *16*, Γ_γ=2.2 eV.
10658.0 *3*	1$^+$	1	E(n)(lab)=63.227 keV *14*, gΓ_n=9.5 eV *16*, Γ_γ=1.0 eV.
10658.4 *3*	1$^+$	1	E(n)(lab)=63.659 keV *12*, gΓ_n=13.0 eV *22*, Γ_γ=1.0 eV.
10658.7 *3*	2$^-$	0	E(n)(lab)=63.928 keV *9*, gΓ_n=329 eV *8*, Γ_γ=2.2 eV.
10660.4 *3*	2$^-$	0	E(n)(lab)=65.698 keV *10*, gΓ_n=722 eV *9*, Γ_γ=2.2 eV.
10663.0 *3*	2$^-$	0	E(n)(lab)=68.354 keV *9*, gΓ_n=214 eV *5*, Γ_γ=2.2 eV.
10664.3 *3*	2$^-$	0	E(n)(lab)=69.632 keV *19*, gΓ_n=20 eV *4*, Γ_γ=2.2 eV.
10664.3 *3*	1$^-$	0	E(n)(lab)=69.67 keV *4*, gΓ_n=12 eV *4*, Γ_γ=2.2 eV.
10665.3 *3*	1$^+$	1	E(n)(lab)=70.709 keV *25*, gΓ_n=6.1 eV *18*, Γ_γ=1.0 eV.
10667.5 *3*	2$^-$	0	E(n)(lab)=72.916 keV *11*, gΓ_n=28.0 eV *23*, Γ_γ=2.2 eV.
10671.8 *3*	2$^-$	0	E(n)(lab)=77.268 keV *16*, gΓ_n=174 eV *15*, Γ_γ=2.2 eV.
10671.8 *3*	1$^-$	0	E(n)(lab)=77.32 keV *3*, gΓ_n=101 eV *17*, Γ_γ=2.2 eV.
10673.4 *3*	1$^+$	1	E(n)(lab)=78.93 keV *3*, gΓ_n=10 eV *3*, Γ_γ=1.0 eV.
10673.5 *3*	2$^-$	0	E(n)(lab)=79.05 keV *14*, gΓ_n=67 eV *4*, Γ_γ=2.2 eV.
10674.9 *3*	2$^-$	0	E(n)(lab)=80.45 keV *4*, gΓ_n=4.7 eV *20*, Γ_γ=2.2 eV.
10677.3 *3*	1$^-$	0	E(n)(lab)=82.879 keV *17*, gΓ_n=219 eV *16*, Γ_γ=2.2 eV.
10677.6 *3*	1$^-$	0	E(n)(lab)=83.13 keV *2*, gΓ_n=52 eV *11*, Γ_γ=2.2 eV.
10678.4 *3*	2$^-$	0	E(n)(lab)=84.025 keV *19*, gΓ_n=18 eV *3*, Γ_γ=2.2 eV.
10681.1 *3*	1$^+$	1	E(n)(lab)=86.75 keV *4*, gΓ_n=9.3 eV *25*, Γ_γ=1.0 eV.
10682.8 *3*	1$^-$	0	E(n)(lab)=88.45 keV *3*, gΓ_n=462 eV *13*, Γ_γ=2.2 eV.
10688.3 *3*	2$^-$	0	E(n)(lab)=94.017 keV *16*, gΓ_n=164 eV *7*, Γ_γ=2.2 eV.
10690.6 *3*	1$^-$	0	E(n)(lab)=96.43 keV *3*, gΓ_n=25 eV *7*, Γ_γ=2.2 eV.
10690.9 *3*	2$^+$	1	E(n)(lab)=96.724 keV *24*, gΓ_n=31 eV *6*, Γ_γ=1.0 eV.
10691.2 *3*	1$^+$	1	E(n)(lab)=96.99 keV *3*, gΓ_n=19 eV *5*, Γ_γ=1.0 eV.
10692.2 *3*	1$^-$	0	E(n)(lab)=98.014 keV *22*, gΓ_n=88 eV *24*, Γ_γ=2.2 eV.
10692.5 *3*	2$^-$	0	E(n)(lab)=98.317 keV *23*, gΓ_n=147 eV *22*, Γ_γ=2.2 eV.
10695.7 *3*	2$^-$	0	E(n)(lab)=101.55 keV *3*, gΓ_n=26 eV *4*, Γ_γ=2.2 eV.
10698.7 *3*	1$^-$	0	E(n)(lab)=104.62 keV *10*, gΓ_n=0.34 keV *3*, Γ_γ=2.2 eV.
10699.2 *3*	2$^-$	0	E(n)(lab)=105.150 keV *17*, gΓ_n=376 eV *18*, Γ_γ=2.2 eV.
10700.0 *3*	1$^-$	0	E(n)(lab)=105.93 keV *8*, gΓ_n=0.48 eV *5*, Γ_γ=2.2 eV.
10702.2 *3*	2$^-$	0	E(n)(lab)=108.149 keV *20*, gΓ_n=108 eV *9*, Γ_γ=2.2 eV.
10703.3 *3*	1$^+$	1	E(n)(lab)=109.26 keV *4*, gΓ_n=33 eV *8*, Γ_γ=1.0 eV.
10703.5 *3*	2$^-$	0	E(n)(lab)=109.46 keV *3*, gΓ_n=184 eV *16*, Γ_γ=2.2 eV.
10704.0 *3*	1$^+$	1	E(n)(lab)=109.96 keV *4*, gΓ_n=25 eV *9*, Γ_γ=1.0 eV.
10704.7 *3*	1$^+$	1	E(n)(lab)=110.68 keV *5*, gΓ_n=14 eV *5*, Γ_γ=1.0 eV.
10706.2 *3*	2$^-$	0	E(n)(lab)=112.237 keV *22*, gΓ_n=842 eV *22*, Γ_γ=2.2 eV.
10708.4 *3*	2$^-$	0	E(n)(lab)=114.473 keV *21*, gΓ_n=97 eV *8*, Γ_γ=2.2 eV.
10711.2 *3*	2$^-$	0	E(n)(lab)=117.329 keV *23*, gΓ_n=408 eV *22*, Γ_γ=2.2 eV.
10712.1 *3*	1$^-$	0	E(n)(lab)=118.21 keV *3*, gΓ_n=125 eV *16*, Γ_γ=2.2 eV.
10712.8 *3*	2$^-$	0	E(n)(lab)=118.957 keV *24*, gΓ_n=93 eV *8*, Γ_γ=2.2 eV.
10714.3 *3*	2$^-$	0	E(n)(lab)=120.458 keV *24*, gΓ_n=92 eV *8*, Γ_γ=2.2 eV.
10715.0 *3*	2$^-$	0	E(n)(lab)=121.20 keV *6*, gΓ_n=16 eV *5*, Γ_γ=2.2 eV.
10716.6 *3*	2$^-$	0	E(n)(lab)=122.82 keV *3*, gΓ_n=57 eV *7*, Γ_γ=2.2 eV.

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^{61}Ni(n,γ),(n,n):resonances 2006Ko28 (continued)

^{62}Ni Levels (continued)

E(level)†	J$^\pi$	L	Comments
10719.2 *3*	2$^-$	0	E(n)(lab)=125.44 keV *4*, gΓ_n=37 eV *7*, Γ_γ=2.2 eV.
10720.7 *3*	2$^-$	0	E(n)(lab)=127.00 keV *4*, gΓ_n=36 eV *8*, Γ_γ=2.2 eV.
10721.1 *3*	1$^-$	0	E(n)(lab)=127.42 keV *6*, gΓ_n=28 eV *9*, Γ_γ=2.2 eV.
10721.8 *3*	2$^-$	0	E(n)(lab)=128.12 keV *3*, gΓ_n=453 eV *22*, Γ_γ=2.2 eV.
10723.8 *3*	1$^-$	0	E(n)(lab)=130.11 keV *4*, gΓ_n=82 eV *15*, Γ_γ=2.2 eV.
10724.4 *3*	1$^-$	0	E(n)(lab)=130.80 keV *4*, gΓ_n=0.13 keV *4*, Γ_γ=2.2 eV.
10724.8 *3*	2$^-$	0	E(n)(lab)=131.12 keV *3*, gΓ_n=0.15 keV *3*, Γ_γ=2.2 eV.
10729.7 *3*	2$^-$	0	E(n)(lab)=136.11 keV *6*, gΓ_n=23 eV *7*, Γ_γ=2.2 eV.
10730.7 *3*	2$^-$	0	E(n)(lab)=137.18 keV *5*, gΓ_n=30 eV *8*, Γ_γ=2.2 eV.
10731.7 *3*	2$^-$	0	E(n)(lab)=138.20 keV *4*, gΓ_n=56 eV *9*, Γ_γ=2.2 eV.
10734.2 *3*	2$^-$	0	E(n)(lab)=140.76 keV *3*, gΓ_n=203 eV *15*, Γ_γ=2.2 eV.
10735.4 *3*	1$^-$	0	E(n)(lab)=141.92 keV *5*, gΓ_n=49 eV *11*, Γ_γ=2.2 eV.
10736.1 *3*	2$^-$	0	E(n)(lab)=142.64 keV *4*, gΓ_n=66 eV *12*, Γ_γ=2.2 eV.
10736.8 *3*	2$^-$	0	E(n)(lab)=143.34 keV *3*, gΓ_n=242 eV *17*, Γ_γ=2.2 eV.
10738.6 *3*	2$^-$	0	E(n)(lab)=145.14 keV *10*, gΓ_n=16 eV *8*, Γ_γ=2.2 eV.
10740.7 *3*	1$^+$	1	E(n)(lab)=147.32 keV *5*, gΓ_n=66 eV *12*, Γ_γ=1.0 eV.
10741.2 *3*	2$^-$	0	E(n)(lab)=147.83 keV *3*, gΓ_n=337 eV *20*, Γ_γ=2.2 eV.
10742.7 *3*	2$^-$	0	E(n)(lab)=149.35 keV *7*, gΓ_n=26 eV *8*, Γ_γ=2.2 eV.
10746.3 *3*	2$^-$	0	E(n)(lab)=153.01 keV *4*, gΓ_n=169 eV *19*, Γ_γ=2.2 eV.
10747.1 *3*	1$^-$	0	E(n)(lab)=153.83 keV *6*, gΓ_n=85 eV *20*, Γ_γ=2.2 eV.
10748.0 *3*	2$^-$	0	E(n)(lab)=154.73 keV *6*, gΓ_n=57 eV *13*, Γ_γ=2.2 eV.
10748.5 *3*	2$^-$	0	E(n)(lab)=155.24 keV *4*, gΓ_n=96 eV *14*, Γ_γ=2.2 eV.
10749.7 *3*	1$^-$	0	E(n)(lab)=156.45 keV *8*, gΓ_n=39 eV *14*, Γ_γ=2.2 eV.
10752.3 *3*	1$^-$	0	E(n)(lab)=159.06 keV *6*, gΓ_n=97 eV *21*, Γ_γ=2.2 eV.
10753.1 *3*	2$^-$	0	E(n)(lab)=159.95 keV *4*, gΓ_n=0.43 keV *3*, Γ_γ=2.2 eV.
10754.9 *3*	2$^-$	0	E(n)(lab)=161.75 keV *4*, gΓ_n=344 eV *24*, Γ_γ=2.2 eV.
10757.8 *3*	1$^-$	0	E(n)(lab)=164.73 keV *6*, gΓ_n=0.23 keV *3*, Γ_γ=2.2 eV.
10759.7 *3*	1$^-$	0	E(n)(lab)=166.60 keV *6*, gΓ_n=121 eV *22*, Γ_γ=2.2 eV.
10760.6 *3*	2$^-$	0	E(n)(lab)=167.57 keV *4*, gΓ_n=197 eV *20*, Γ_γ=2.2 eV.
10763.7 *3*	2$^-$	0	E(n)(lab)=170.74 keV *4*, gΓ_n=0.26 keV *3*, Γ_γ=2.2 eV.
10766.1 *3*	2$^-$	0	E(n)(lab)=173.09 keV *4*, gΓ_n=0.57 keV *8*, Γ_γ=2.2 eV.
10767.0 *3*	1$^-$	0	E(n)(lab)=174.08 keV *14*, gΓ_n=0.73 keV *14*, Γ_γ=2.2 eV.
10769.8 *3*	1$^-$	0	E(n)(lab)=176.91 keV *7*, gΓ_n=83 eV *19*, Γ_γ=2.2 eV.
10772.4 *3*	2$^-$	0	E(n)(lab)=179.54 keV *5*, gΓ_n=0.37 keV *3*, Γ_γ=2.2 eV.
10774.7 *3*	2$^-$	0	E(n)(lab)=181.83 keV *5*, gΓ_n=126 eV *18*, Γ_γ=2.2 eV.
10776.5 *3*	2$^-$	0	E(n)(lab)=183.72 keV *7*, gΓ_n=73 eV *15*, Γ_γ=2.2 eV.
10778.3 *3*	1$^-$	0	E(n)(lab)=185.51 keV *11*, gΓ_n=51 eV *19*, Γ_γ=2.2 eV.
10781.5 *3*	2$^-$	0	E(n)(lab)=188.83 keV *5*, gΓ_n=0.25 keV *3*, Γ_γ=2.2 eV.
10786.5 *3*	1$^-$	0	E(n)(lab)=193.90 keV *9*, gΓ_n=0.11 keV *3*, Γ_γ=2.2 eV.
10787.8 *3*	2$^-$	0	E(n)(lab)=195.18 keV *5*, gΓ_n=0.29 keV *3*, Γ_γ=2.2 eV.
10790.9 *3*	2$^-$	0	E(n)(lab)=198.40 keV *6*, gΓ_n=0.22 keV *3*, Γ_γ=2.2 eV.
10793.3 *3*	1$^-$	0	E(n)(lab)=200.82 keV *11*, gΓ_n=84 eV *27*, Γ_γ=2.2 eV.
10796.0 *3*	2$^-$	0	E(n)(lab)=203.55 keV *7*, gΓ_n=0.19 keV *3*, Γ_γ=2.2 eV.
10798.5 *3*	1$^+$	1	E(n)(lab)=206.10 keV *11*, gΓ_n=0.11 keV *3*, Γ_γ=1.0 eV.
10799.1 *3*	1$^-$	0	E(n)(lab)=206.69 keV *11*, gΓ_n=0.18 keV *5*, Γ_γ=2.2 eV.
10800.6 *3*	1$^+$	1	E(n)(lab)=208.22 keV *9*, gΓ_n=0.15 keV *5*, Γ_γ=1.0 eV.
10802.2 *3*	3$^+$	1	E(n)(lab)=209.86 keV *6*, gΓ_n=0.22 keV *3*, Γ_γ=1.0 eV.
10803.0 *3*	2$^-$	0	E(n)(lab)=210.62 keV *8*, gΓ_n=1.10 keV *11*, Γ_γ=2.2 eV.
10804.6 *3*	3$^+$	1	E(n)(lab)=212.31 keV *6*, gΓ_n=0.45 keV *5*, Γ_γ=1.0 eV.
10805.9 *3*	1$^+$	1	E(n)(lab)=213.57 keV *13*, gΓ_n=64 eV *28*, Γ_γ=1.0 eV.
10807.1 *3*	2$^-$	0	E(n)(lab)=214.83 keV *10*, gΓ_n=3.36 keV *14*, Γ_γ=2.2 eV.
10810.3 *3*	2$^-$	0	E(n)(lab)=218.06 keV *8*, gΓ_n=0.20 keV *4*, Γ_γ=2.2 eV.
10812.4 *3*	2$^-$	0	E(n)(lab)=220.25 keV *7*, gΓ_n=0.38 keV *5*, Γ_γ=2.2 eV.
10817.1 *3*	2$^-$	0	E(n)(lab)=225.02 keV *9*, gΓ_n=0.15 keV *3*, Γ_γ=2.2 eV.
10819.2 *3*	2$^-$	0	E(n)(lab)=227.13 keV *7*, gΓ_n=1.004 keV *8*, Γ_γ=2.2 eV.
10822.7 *3*	2$^-$	0	E(n)(lab)=230.63 keV *8*, gΓ_n=1.020 keV *15*, Γ_γ=2.2 eV.

Continued on next page (footnotes at end of table)

^{61}Ni(n,γ),(n,n):resonances 2006Ko28 (continued)

^{62}Ni Levels (continued)

E(level)†	J$^{\pi}$	L	Comments
10824.3 *4*	2$^-$	0	E(n)(lab)=232.35 keV *23*, gΓ_n=0.20 keV *13*, Γ_γ=2.2 eV.
10824.4 *5*	1$^-$	0	E(n)(lab)=232.5 keV *4*, gΓ_n=0.27 keV *16*, Γ_γ=2.2 eV.
10827.8 *3*	2$^-$	0	E(n)(lab)=235.82 keV *9*, gΓ_n=0.19 keV *5*, Γ_γ=2.2 eV.
10828.5 *3*	1$^-$	0	E(n)(lab)=236.53 keV *16*, gΓ_n=0.15 keV *7*, Γ_γ=2.2 eV.
10832.2 *3*	2$^-$	0	E(n)(lab)=240.36 keV *13*, gΓ_n=0.17 eV *4*, Γ_γ=2.2 eV.
10832.3 *5*	1$^-$	0	E(n)(lab)=240.4 keV *4*, gΓ_n=0.30 keV *11*, Γ_γ=2.2 eV.
10845.6 *3*	2$^-$	0	E(n)(lab)=253.99 keV *9*, gΓ_n=0.28 keV *5*, Γ_γ=2.2 eV.
10849.8 *3*	1$^-$	0	E(n)(lab)=258.26 keV *17*, gΓ_n=0.77 keV *19*, Γ_γ=2.2 eV.
10851.4 *3*	2$^-$	0	E(n)(lab)=259.82 keV *16*, gΓ_n=1.14 keV *10*, Γ_γ=2.2 eV.
10855.3 *3*	2$^-$	0	E(n)(lab)=263.78 keV *12*, gΓ_n=0.19 keV *4*, Γ_γ=2.2 eV.
10858.7 *3*	2$^-$	0	E(n)(lab)=267.23 keV *14*, gΓ_n=0.13 keV *4*, Γ_γ=2.2 eV.
10868.7 *3*	2$^-$	0	E(n)(lab)=277.44 keV *15*, gΓ_n=0.13 keV *4*, Γ_γ=2.2 eV.
10876.1 *3*	2$^-$	0	E(n)(lab)=284.97 keV *16*, gΓ_n=0.16 keV *5*, Γ_γ=2.2 eV.
10878.9 *3*	2$^-$	0	E(n)(lab)=287.82 keV *12*, gΓ_n=0.35 keV *6*, Γ_γ=2.2 eV.
10882.5 *3*	2$^-$	0	E(n)(lab)=291.47 keV *14*, gΓ_n=0.25 keV *6*, Γ_γ=2.2 eV.
10884.4 *3*	2$^-$	0	E(n)(lab)=293.37 keV *17*, gΓ_n=0.18 keV *6*, Γ_γ=2.2 eV.
10885.7 *3*	2$^-$	0	E(n)(lab)=294.74 keV *13*, gΓ_n=0.38 keV *8*, Γ_γ=2.2 eV.
10888.2 *3*	2$^-$	0	E(n)(lab)=297.21 keV *14*, gΓ_n=0.25 keV *6*, Γ_γ=2.2 eV.
10891.2 *3*	2$^-$	0	E(n)(lab)=300.30 keV *14*, gΓ_n=0.25 keV *6*, Γ_γ=2.2 eV.
10970 *20*	2$^-$	0	E(n)(lab)=380 keV *20*, gΓ_n=43 keV *16*, Γ_γ=2.2 eV.
11010 *20*	1$^-$	0	E(n)(lab)=420 keV *20*, gΓ_n=158 keV *7*, Γ_γ=2.2 eV.

† S(n)(^{62}Ni)+E(n)(c.m.); S(n)=10595.8 *3* (2011AuZZ). E(n)(c.m.)=E(n)(lab)(0.9837154).
‡ From 2006MuZX.