^{130}Ba $Z = 56$ $N = 74$ link to full NNDC output

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1092.721 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
130BA 1	0.000	0+		1	STABLE
130BA 2	0.357	2+		2	41.8 PS 12
S-alpha= 0.540 (0.004)					
130BA 3			0.889	3	
130BA 4	0.902	4+		4	3.83 PS 6
130BA 5	0.908	2+		5	
130BA 6	1.179	0+		6	
130BA 7			1.361 3(+)	7	
130BA 8			1.478 (4+)	8	
130BA 9			1.544	9	
130BA 10	1.558	2+		10	
130BA 11	1.593	6+		11	0.98 PS 6
130BA 12	1.845	4+		12	
130BA 13	1.883	2+		13	
130BA 14			1.919 3	14	
130BA 15			1.948 (3-)	15	
130BA 16	2.013	5+		16	
130BA 17			2.054 (3,4+)	17	
130BA 18			2.079 3(+)	18	
130BA 19			2.101 (6+)	19	
130BA 20			2.168 (5-)	20	
130BA 21			2.183	21	
130BA 22			2.230	22	
130BA 23			2.248 (3,4+)	23	
130BA 24			2.269	24	
130BA 25			2.280	25	
130BA 26			2.318 (3,4+)	26	
130BA 27			2.347 3(+)	27	
130BA 28	2.395	8+		28	0.49 PS 14
130BA 29			2.408	29	
130BA 30			2.434	30	
130BA 31			2.475 8-	31	9.4 MS 4
130BA 32			2.557	32	
130BA 33			2.568 (7-)	33	4.16 PS 14
130BA 34			2.602	34	
130BA 35			2.646 3(+)	35	
130BA 36			2.734 (1,2+)	36	
130BA 37			2.784 (3,4+)	37	

```
130BA  38 |                |                |   2.800     (8+)            38
130BA  39 |                |                |   2.891     (1 TO 4)        39
130BA  40 |                |                |   2.928                     40
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130BA  41 |                |                |   2.929     (8-)            41
130BA  42 |                |                |   2.935                     42
130BA  43 |                |                |   3.067     (9-)            43   5.27 PS  14
130BA  44 |  3.260     10+ |                |                             44   0.55 PS  7
130BA  45 |                |                |   3.265                     45
130BA  46 |                |                |   3.290                     46
130BA  47 |                |                |   3.423     (10+)           47
130BA  48 |                |                |   3.435     (10-)           48
130BA  49 |                |                |   3.603     (10+)           49
130BA  50 |                |                |   3.659     (11-)           50   2.10 PS  9
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130BA  51 |                |                |   3.660     (2+,3,4+)       51
130BA  52 |                |                |   3.676                     52
130BA  53 |                |                |   3.705     (2+,3,4+)       53
130BA  54 |                |                |   3.712                     54
130BA  55 |                |                |   3.790     (10+)           55
130BA  56 |                |                |   3.799                     56
130BA  57 |                |                |   3.963                     57
130BA  58 |                |                |   3.990     (12)+           58   2.15 PS  21
130BA  59 |                |                |   4.007                     59
130BA  60 |                |                |   4.078     (12-)           60
----------                                                                -----------------
130BA  61 |                |                |   4.222     (12+)           61
130BA  62 |                |                |   4.256     (12+)           62   1.52 PS  14
130BA  63 |                |                |   4.354     (13-)           63
130BA  64 |                |                |   4.404                     64
130BA  65 |                |                |   4.783     (14+)           65   0.41 PS  4
130BA  66 |                |                |   4.879     (14-)           66
130BA  67 |                |                |   4.885     (14+)           67   3.4 PS   6
130BA  68 |                |                |   5.155     (15-)           68
130BA  69 |                |                |   5.680     (16+)           69
130BA  70 |                |                |   5.730     (16+)           70
----------                                                                -----------------
130BA  71 |                |                |   5.767     (16-)           71
130BA  72 |                |                |   6.037     (17-)           72
130BA  73 |                |                |   6.757     (18+)           73
130BA  74 |                |                |   6.973                     74
S-p    =   7.051 ( 0.005)-------------------------------------------------------------------------
130BA  75 |                |                |   8.023                     75


S-p    =   7.051 ( 0.005)-------------------------------------------------------------------------
S-n    =  10.270 ( 0.011)-------------------------------------------------------------------------
S-2p   =  11.979 ( 0.003)-------------------------------------------------------------------------
S-2n   =  18.026 ( 0.006)-------------------------------------------------------------------------
S-alpha=   0.540 ( 0.004)-------------------------------------------------------------------------
```

```
S+p       =  -3.797 ( 0.028)
S+n       =  -7.493 ( 0.004)
S+2p      =  -9.787 ( 0.021)
S+2n      = -17.316 ( 0.003)
S+alpha   =   0.004 ( 0.021)

gap p     =   3.255 ( 0.029)
gap n     =   2.776 ( 0.012)
gap 2p    =   2.192 ( 0.021)
gap 2n    =   0.710 ( 0.006)
gap alpha =   0.543 ( 0.021)
```