

Z=82 N=126 A=208
 V=55+/-33*(N-Z)/A MeV
 V_so = -0.44 V
 R=1.27*A**(1/3)
 a=0.67 fm
 Coulomb radius = R

Protons

1	s	1/2	-32.3342501544419
2	s	1/2	-21.7874412478383
3	s	1/2	-7.02807272807975
1	p	3/2	-29.0587187374533
2	p	3/2	-15.7351213251190
1	p	1/2	-28.5229206429819
2	p	1/2	-14.8213252657997
1	d	5/2	-24.9019532322432
2	d	5/2	-9.34600533591322
1	d	3/2	-23.6576564714792
2	d	3/2	-7.51134419092008
1	f	7/2	-20.0476415019935
2	f	7/2	-2.69584012799828
1	f	5/2	-17.7978435442757
1	g	9/2	-14.6107449684077
1	g	7/2	-11.0587819961370
1	h	11/2	-8.67204584111149
1	h	9/2	-3.53763111715591
1	i	13/2	-2.29259924346190

Neutrons

1	s	1/2	-39.9577983082330
2	s	1/2	-29.4763463006824
3	s	1/2	-15.1741047166292
4	s	1/2	-1.26221063634114
1	p	3/2	-36.1191843740036
2	p	3/2	-23.3462802812019
3	p	3/2	-8.19297303073400
1	p	1/2	-35.7517413077958
2	p	1/2	-22.6150720623558
3	p	1/2	-7.29035212075914
1	d	5/2	-31.5947840839956
2	d	5/2	-16.9310343707923
3	d	5/2	-1.87505312927555
1	d	3/2	-30.6854484207068
2	d	3/2	-15.4671638414661
3	d	3/2	-0.646563404414212
1	f	7/2	-26.4966740829356
2	f	7/2	-10.3459209013992
1	f	5/2	-24.7899632625106
2	f	5/2	-8.04619781183900
1	g	9/2	-20.9076244251354
2	g	9/2	-3.75415241986053

1	g	7/2	-18.1516163146601
2	g	7/2	-0.724903639871594
1	h	11/2	-14.8932196109103
1	h	9/2	-10.8593401549122
1	i	13/2	-8.50983414531139
1	i	11/2	-3.02304231550197
1	j	15/2	-1.81367852108091