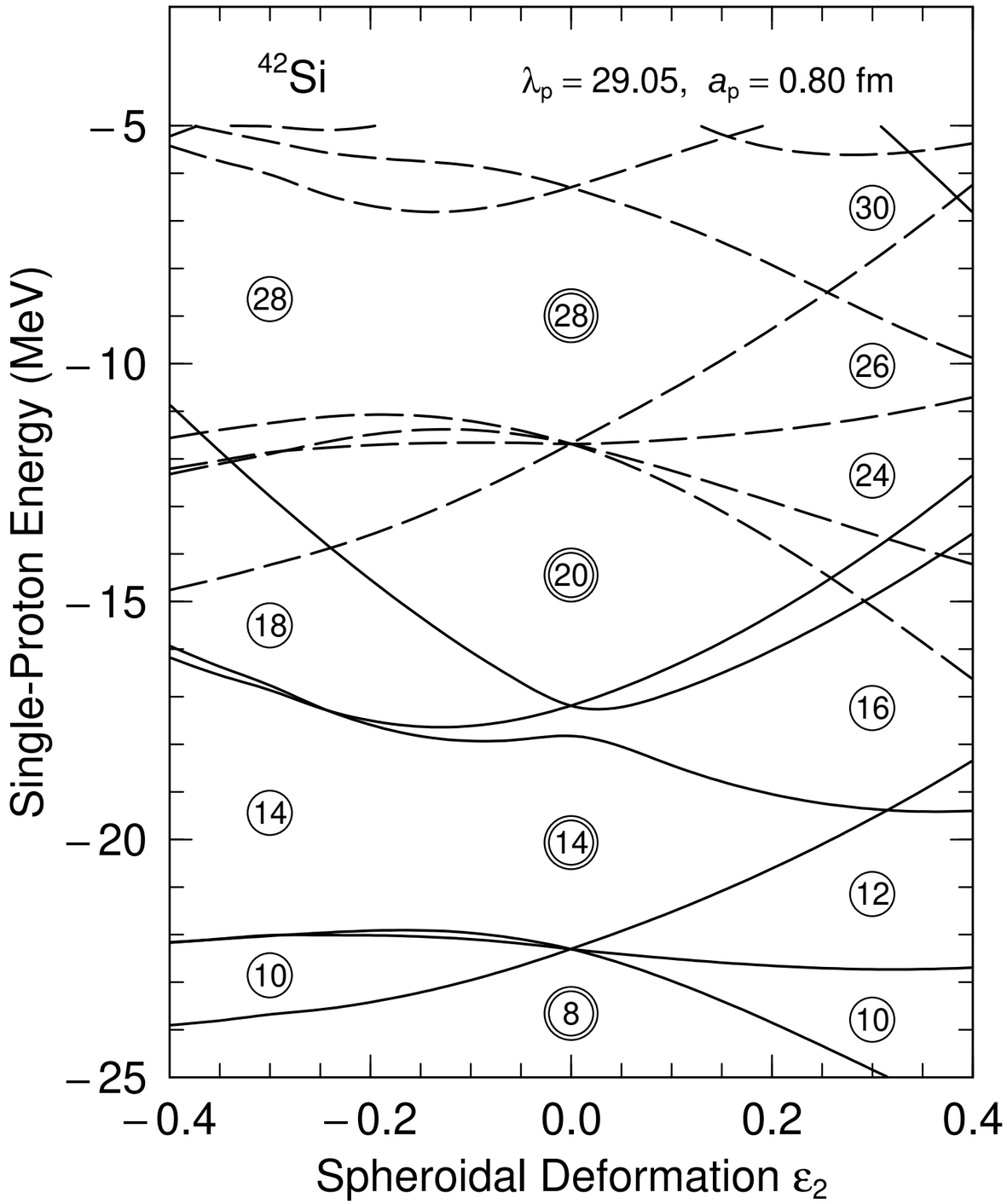
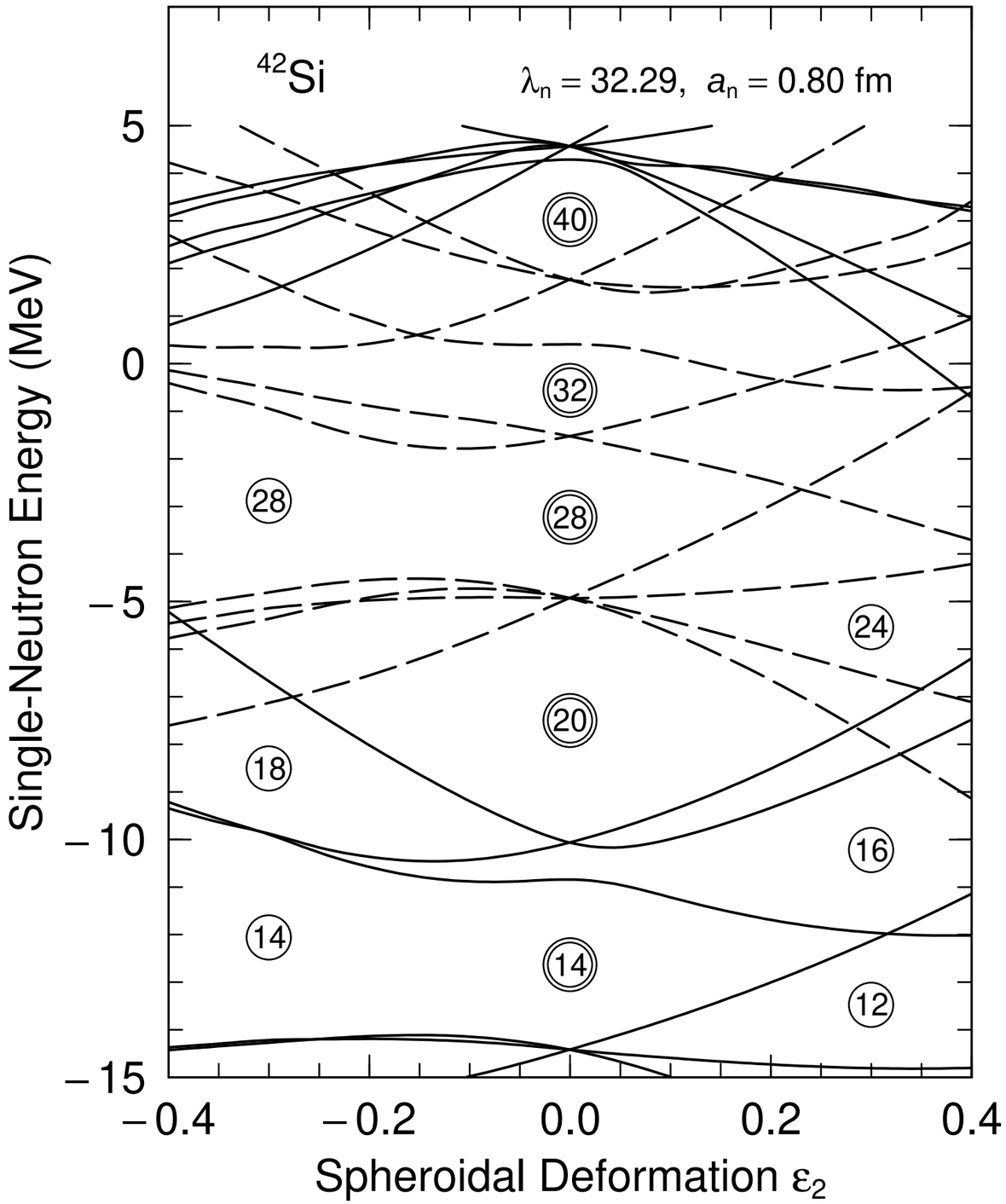

^{42}Si
$\lambda_p = 29.05,\ a_p = 0.80$ fm
Single-Proton Energy (MeV)
−5
−10
−15
−20
−25
28
28
30
26
24
20
18
16
14
14
12
10
8
10
−0.4
−0.2
0.0
0.2
0.4
Spheroidal Deformation ε_2


^{42}Si
$\lambda_n = 32.29,\ a_n = 0.80$ fm
Single-Neutron Energy (MeV)
5
0
−5
−10
−15
40
32
28
28
24
20
18
16
14
14
12
−0.4
−0.2
0.0
0.2
0.4
Spheroidal Deformation ε_2