

$E_0(N)$ – valori dell'energia per strato nei nuclei atomici
(seconda approssimazione)

$$E_0(N) = 17.828 \cdot N^{\frac{2}{3}} \cdot (N-1)^\alpha - \beta$$

$$\alpha = 16.9423 \cdot 10^{-3} - 65.785 \cdot 10^{-5} \cdot N - 3.31954 \cdot 10^{-7} \cdot N^2 + 35.0126 \cdot 10^{-9} \cdot N^3 - 15.758 \cdot 10^{-11} \cdot N^4$$

$$\beta = - \frac{2.606}{n_s \cdot \log N - 0.2228} \quad (\text{per nuclei } d-d)$$

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 2=28,300 | 18=124,26 | 34=184,09 | 50=229,68 | 66=266,89 |
| 3=29,170 | 19=128,62 | 35=187,28 | 51=232,21 | 67=269,02 |
| 4=45,635 | 20=132,88 | 36=190,41 | 52=234,71 | 68=271,13 |
| 5=49,595 | 21=137,44 | 37=193,49 | 53=237,18 | 69=273,21 |
| 6=60,110 | 22=141,11 | 38=196,52 | 54=239,62 | 70=275,28 |
| 7=64,431 | 23=145,09 | 39=199,51 | 55=242,03 | 71=277,33 |
| 8=72,951 | 24=148,98 | 40=202,45 | 56=244,41 | 72=279,36 |
| 9=78,925 | 25=152,80 | 41=205,34 | 57=246,77 | 73=281,38 |
| 10=84,656 | 26=156,54 | 42=208,20 | 58=249,10 | 74=283,38 |
| 11=90,173 | 27=160,21 | 43=211,01 | 59=251,41 | 75=285,36 |
| 12=95,497 | 28=163,81 | 44=213,79 | 60=253,69 | 76=287,31 |
| 13=100,65 | 29=167,35 | 45=216,53 | 61=255,95 | 77=289,27 |
| 14=105,64 | 30=170,81 | 46=219,23 | 62=258,18 | 78=291,20 |
| 15=110,49 | 31=174,22 | 47=221,89 | 63=260,39 | 79=293,12 |
| 16=115,20 | 32=177,57 | 48=224,52 | 64=262,58 | 80=295,02 |
| 17=119,79 | 33=180,86 | 49=227,12 | 65=264,75 | 81=296,91 |

$E_0(N)$ – energia per strato nei nuclei atomici
(seconda approssimazione)

| | | | |
|------------|------------|------------|------------|
| 82=298,78 | 104=336,61 | 126=366,25 | 148=389,07 |
| 83=300,64 | 105=338,18 | 127=369,01 | 149=389,71 |
| 84=302,48 | 106=339,74 | 128=370,21 | 150=390,31 |
| 85=304,31 | 107=341,28 | 129=371,39 | 151=390,87 |
| 86=306,13 | 108=342,82 | 130=372,55 | 152=391,40 |
| 87=307,93 | 109=344,33 | 131=373,68 | 153=391,89 |
| 88=309,72 | 110=345,84 | 132=374,80 | 154=392,35 |
| 89=311,49 | 111=347,33 | 133=375,89 | 155=392,77 |
| 90=313,26 | 112=348,80 | 134=376,96 | 156=393,14 |
| 91=315,01 | 113=350,26 | 135=378,00 | 157=393,48 |
| 92=316,75 | 114=351,71 | 136=379,02 | 158=393,77 |
| 93=318,47 | 115=353,14 | 137=380,01 | 159=394,03 |
| 94=320,18 | 116=354,56 | 138=380,98 | 160=394,24 |
| 95=321,88 | 117=355,96 | 139=381,92 | 161=394,41 |
| 96=323,57 | 118=357,34 | 140=382,83 | 162=394,53 |
| 97=325,24 | 119=358,71 | 141=383,72 | 163=394,61 |
| 98=326,90 | 120=360,06 | 142=384,58 | 164=394,64 |
| 99=328,55 | 121=361,39 | 143=385,40 | 165=394,63 |
| 100=330,19 | 122=362,71 | 144=386,20 | 166=394,56 |
| 101=331,81 | 123=364,00 | 145=386,97 | 167=394,45 |
| 102=333,42 | 124=365,28 | 146=387,70 | 168=394,29 |
| 103=335,02 | 125=366,54 | 147=388,40 | 169=394,08 |

681