

27 The table shows the masses of some particles.

particle	mass / u
proton	1.00728
neutron	1.00867
electron	0.00055
${}^4_2\text{He}$ atom	4.00370

What is the mass defect of an atom of helium, ${}^4_2\text{He}$?

A 0.0282 u

B 0.0293 u

C 1.9872 u

D 1.9878 u

28 Plutonium, Pu , exists in various isotopic forms and has a proton number (atomic number) of 94