29 In this question, use the following values for the masses of the proton, the neutron and the electron.

proton mass m_p = 1.00728 u

neutron mass m_n = 1.00867 u

electron mass m_e = 0.00055 u

The particles making up a zirconium atom of nucleon number 90 and proton number 40 are completely separated to infinity.

What is the total mass of the separated particles?

A 90.0000 u **B** 90.7247 u **C** 90.7328 u **D** 90.7467 u