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Since nucleon binding energies are of the order of their kinetic energies  $mv^2/2$ , nucleons within the nucleus move at non-relativistic velocities  $v^2/c^2 \sim 10^{-4}$ . A nuclear species, or nuclide, is defined by  $N$ , the number of neutrons, and by  $Z$ , the number of protons. The mass number  $A$  is the total number of nucleons, i.e.  $A=N+Z$ .

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ATOMIC AND NUCLEAR STRUCTURE 1.3.1. Basic definitions Protons and neutrons are referred to as nucleons They are bound in the nucleus with the strong force The strong force between two nucleons is a very short-range force, active only at distances of the order of a few femtometer (fm).  $1 \text{ fm} = 10^{-15} \text{ m}$

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