

*More Nuclear Physics*

***Neutrons  
and  
Neutrinos***



# *More Nuclear Physics*

## *Neutrons and Neutrinos*

Nucleon – particles that can be found in the nucleus of an atom.

There are two types of nucleons:

- \* *Protons*
- \* *Neutrons*

# *More Nuclear Physics*

## *Neutrons*

*When investigating the masses of nuclei, it was determined that nuclei could not contain only protons.*

*To account for this observation, Rutherford proposed that there be a particle in the nucleus that had mass but no charge.*

*He called this particle the neutron, and imagined the neutron to be a closely paired proton and electron.*

*The neutron was eventually discovered by Chadwick.*

*Common symbol:  $n$*