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• Nucleon potential:

- Charge independent: strong force between neutrons and protons is the same as the strong force between neutrons and neutrons and between protons and protons.
- When the two nucleons are in a state with odd *l*, the nucleon potential will be zero.
- When the two nucleons are in a state with even *l*, the nucleon potential will be non-zero.
- Pauli exclusion principle prohibits certain configurations (see next week).

Frank L. H. Wolfs Department of Physics and Astronomy, University of Rochester, Lecture 23, Page 15

