Student Research at Los Alamos

October 27, 2007

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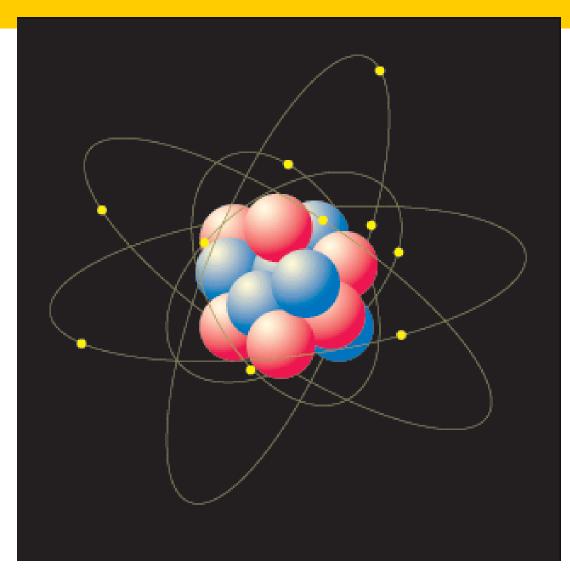
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Neutron-Deuteron Breakup
Our Jobs
Our Experience
Lasting Impressions

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Nuclear Physics



Houghton College Physics

The Four Fundamental Forces

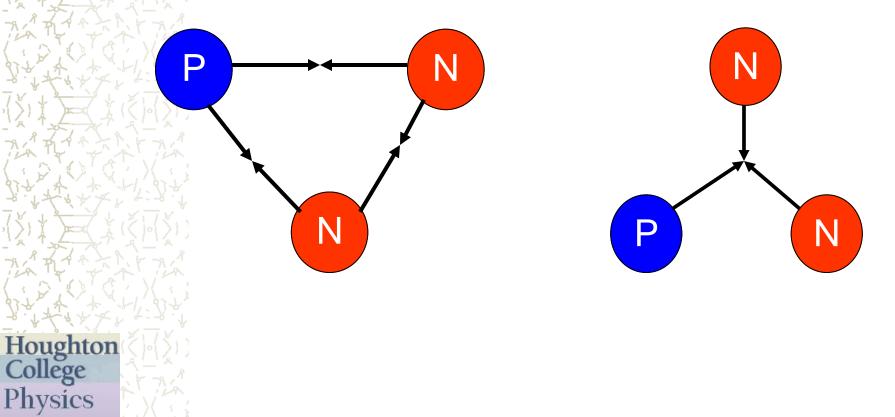
| Force | Relative Strength | Range | Example |
|-----------------|----------------------|---------------------|-----------------------------|
| Strong Nuclear | 1 | 10 ⁻¹⁵ m | Holds nuclei together |
| Electromagnetic | 1/137 | Infinite | Holds atoms together |
| Weak Nuclear | 1/10,000 | 10 ⁻¹⁶ m | Radioactive decay |
| Gravity | 10 ⁻³⁸ | Infinite | Holds Solar system together |
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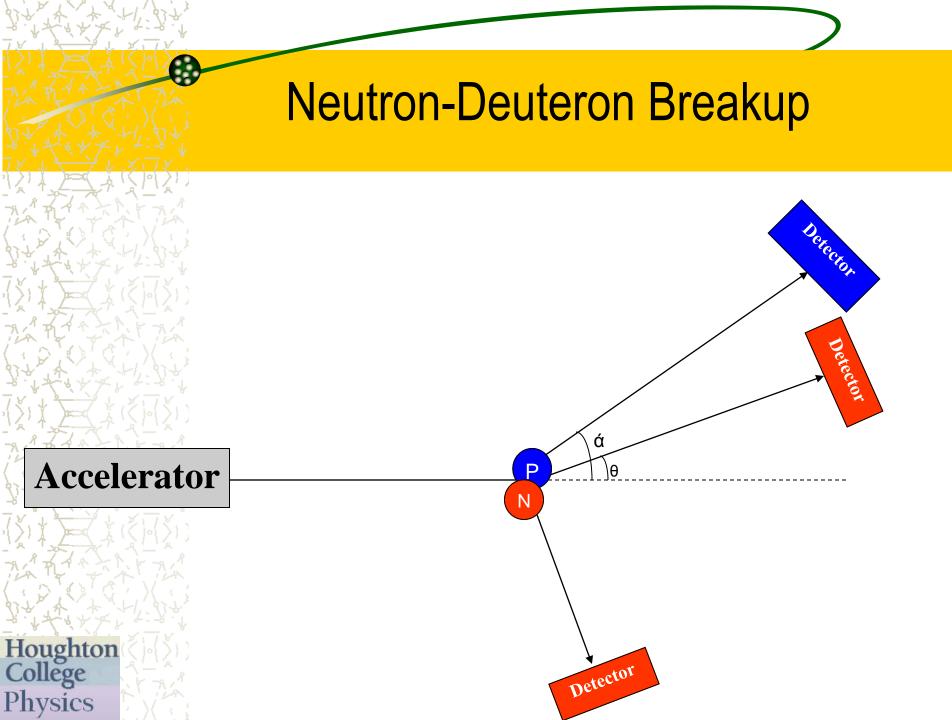
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Strong Force

Two-Nucleon Force

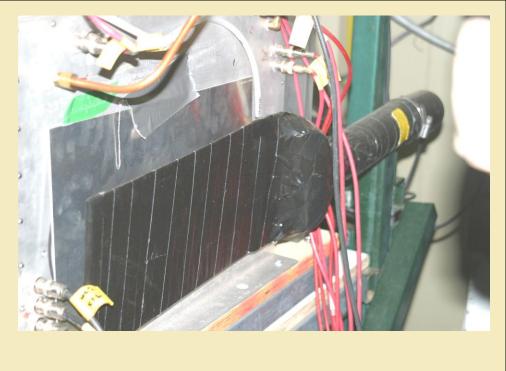
Three-Nucleon Force



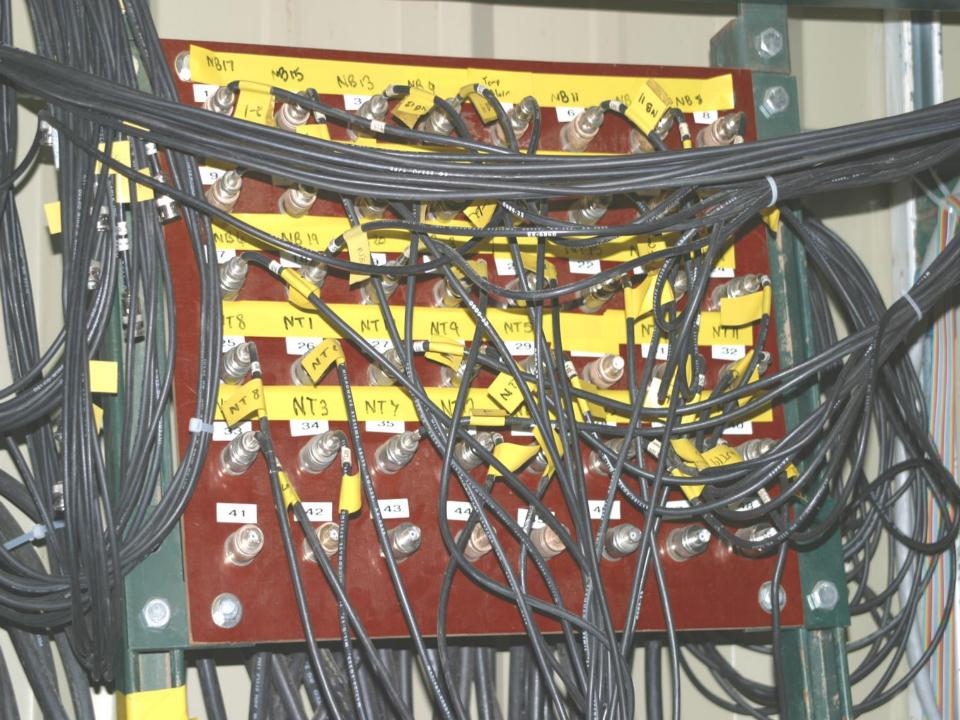












Pueblo's Cliff Dwellings



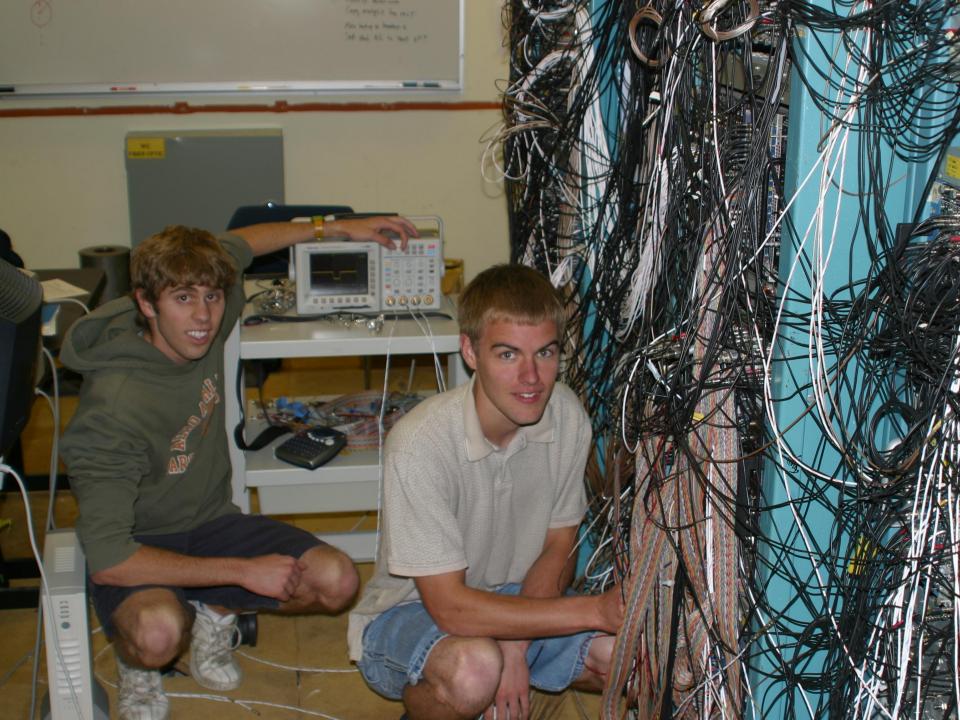
Los Alamos Neutron Science Center

Los Alamos Neutron Science Center

Photo taken from Google Earth

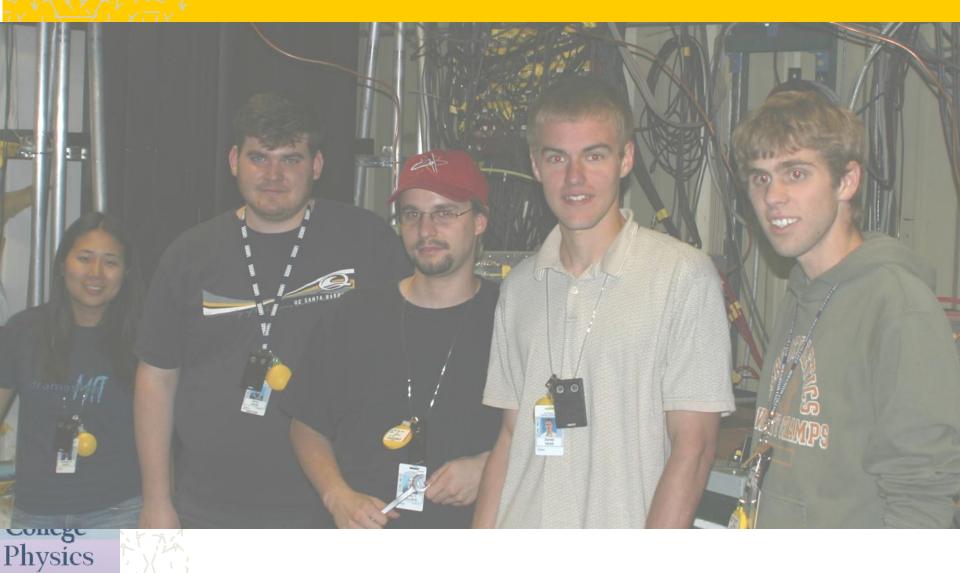
Electronics 101

-1 -1 -1 -1 -1





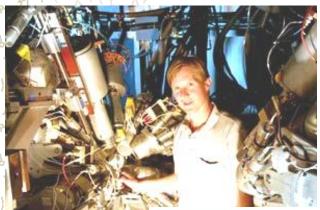
Teamwork



Meeting Physicists



World of Physics Research



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