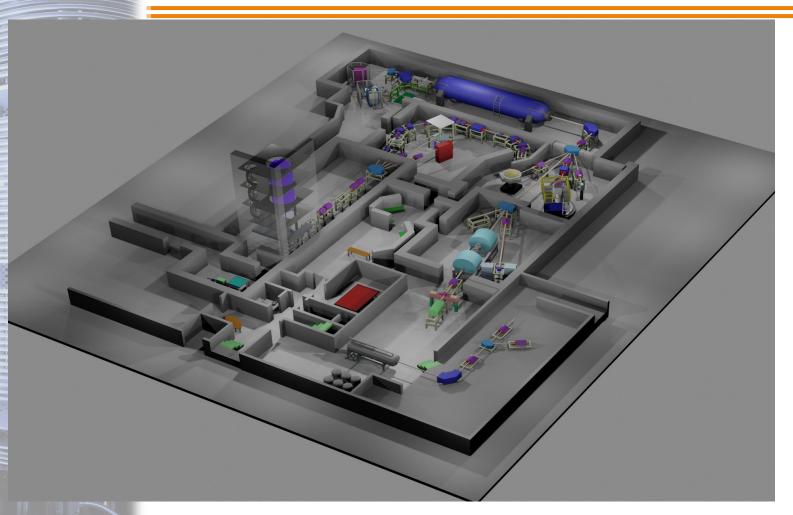
Instrumentation Plans at the Notre Dame Nuclear Science Laboratory – Dan Bardayan



Some unique features (at least in U.S.):

• Operate 3 accelerators simultaneously.

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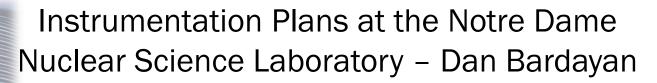
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- Measure capture in inverse kinematics with high intensity beams (St. George).
- Operate only underground nuclear physics lab.









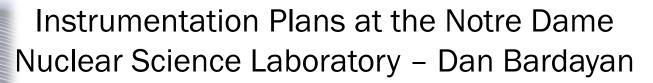


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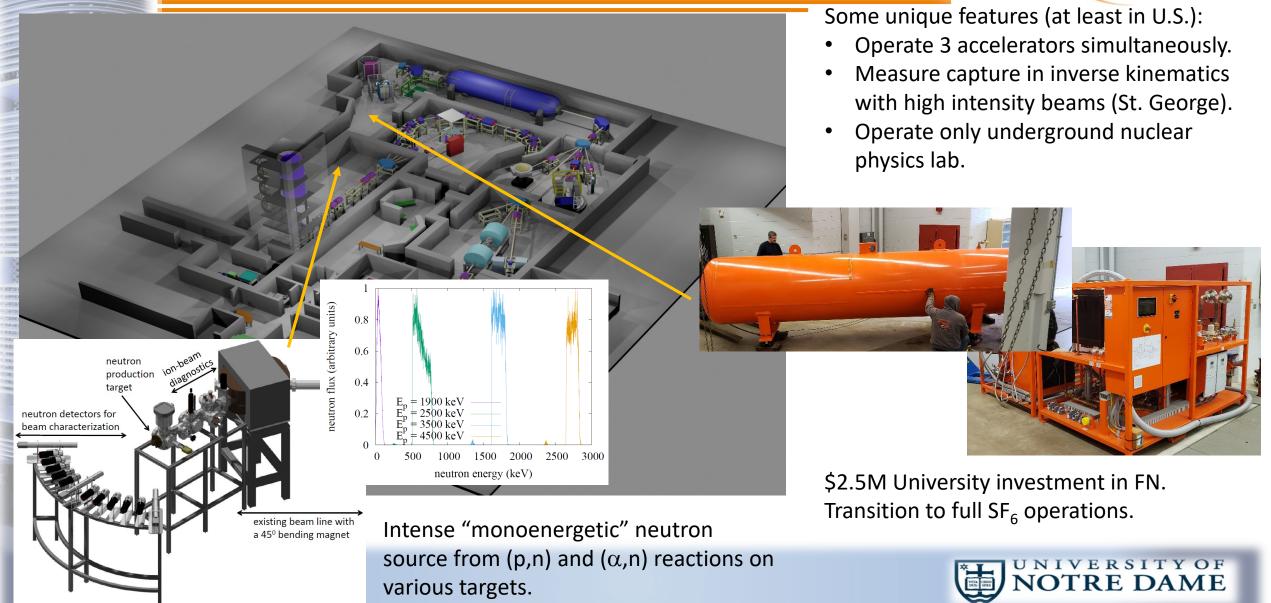
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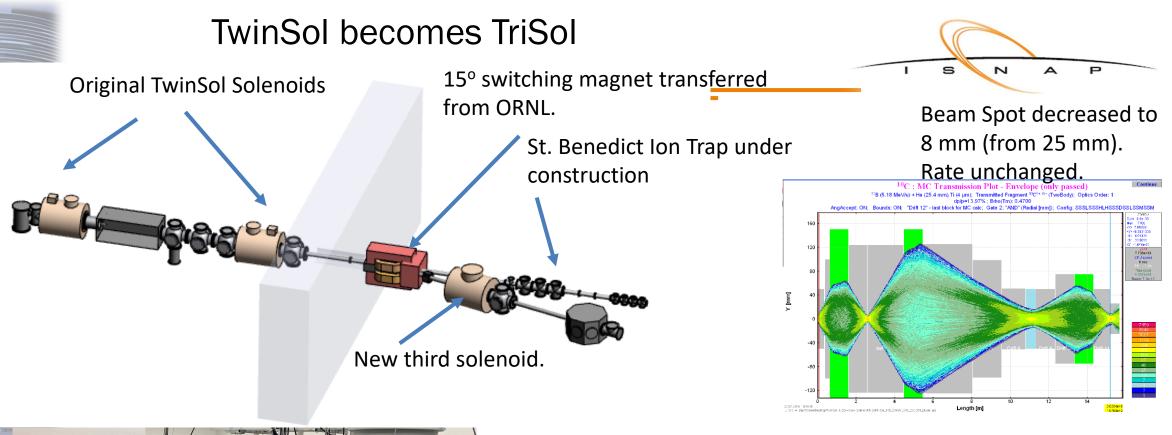
2.5M University investment in FN. Transition to full SF₆ operations.



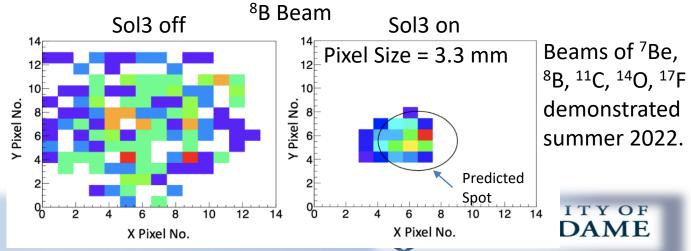




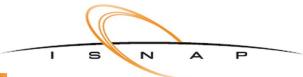




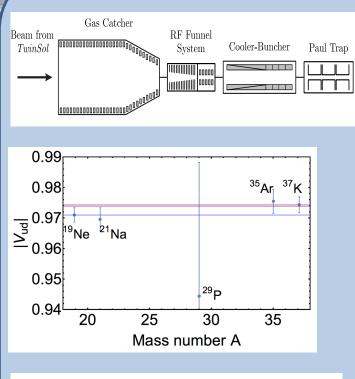




New instruments for use with exotic beams

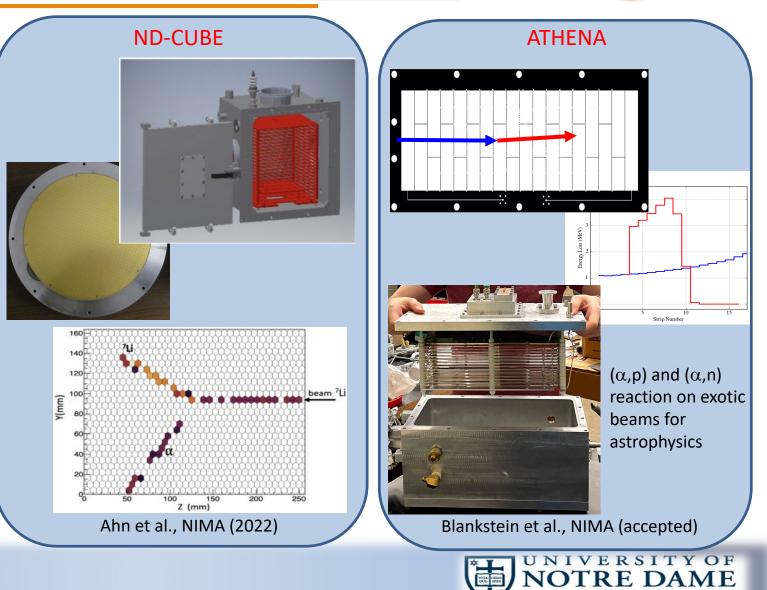


ST. BENEDICT



Measure the β - ν angular correlation parameter for superallowed mixed beta decay transitions between mirror nuclei

Valverde et al., Hyperfine Int. (2019)



New spectrometers coming on-line

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