Active Target Time Projection Chamber by 2012

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RTRIUMF

- Next-generation device: target and detector in one
 - Tracks charged particles emerging from reactions
- Unique ability to detect and identify large mass range over a broad dynamic range with high resolution and 4 π acceptance
 - Readout electronics for 10000 channels in collaboration with labs in France, Germany, UK and Japan; electron amplification and pad structure in collaboration with labs in Canada and France

TWIST solenoid

- Enables 4 of the 17 science benchmarks
 - Shell structure
 Equation of state
 Weakly-bound nuclei
 The rp process
- Replacement value: \$1.5M (FY14)

rrrr

Saint Marvs

High resolution and high efficiency for reaccelerated and fast beam experiments

Offering of MSU in response to DOE Funding Opportunity Announcement DE-P\$02-08ER41535 This page contains proprietary information that MSU requests not be released to persons outside the Government, except for purposes of review and evaluation