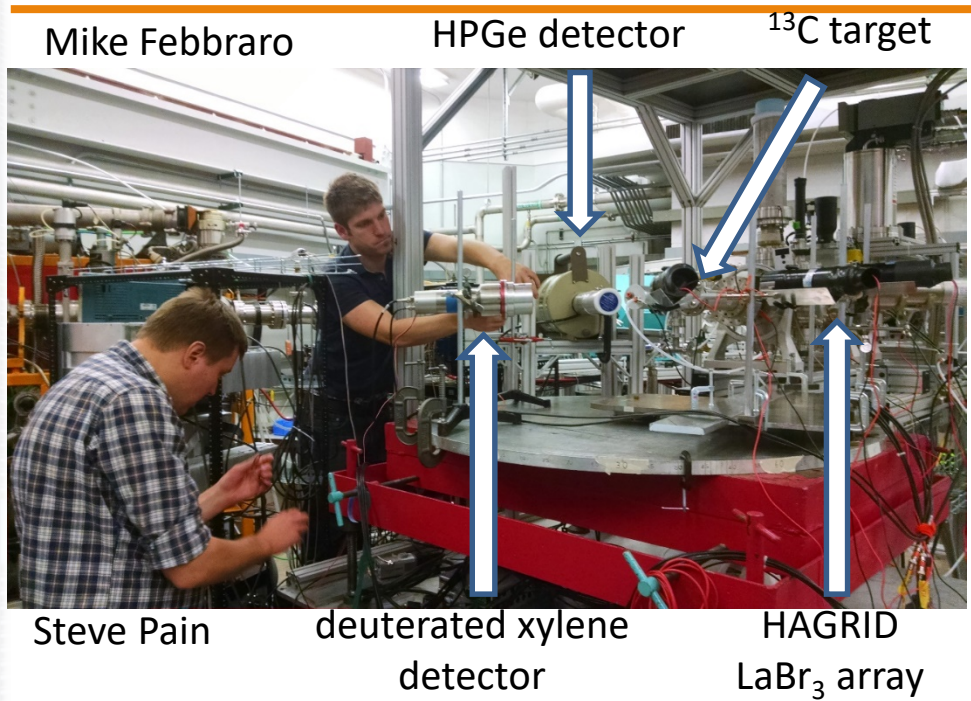


New alpha induced neutron studies at Notre Dame



Mike Febbraro

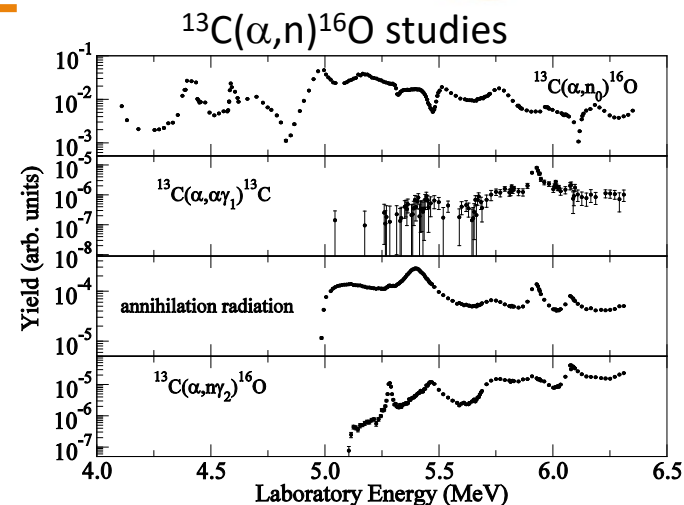
HPGe detector

^{13}C target

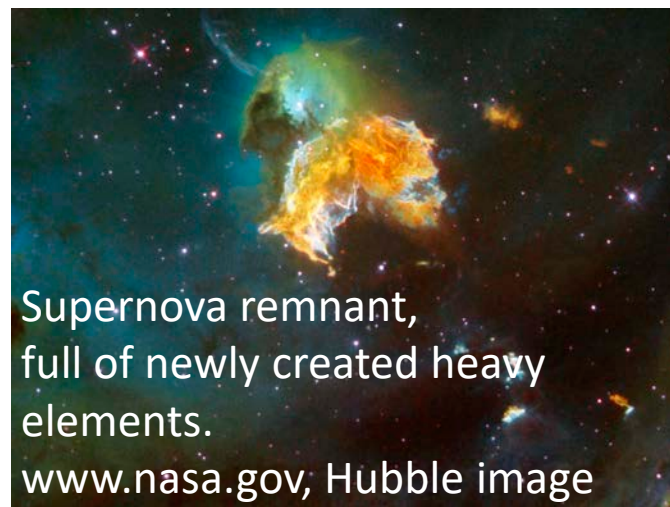
Steve Pain

deuterated xylene
detector

HAGRID
 LaBr_3 array



Researches at Notre Dame preparing to study key reactions that generate neutrons in stars and supernova, fuel for the creation of nearly all the heavy elements. New state of the art detectors are being used that will eventually be used at CASPAR, a new underground facility.



Supernova remnant,
full of newly created heavy
elements.
www.nasa.gov, Hubble image



M. Febbraro, Q. Liu, R.J. deBoer, J. Görres, S. Pain, W. Peters, K. Smith, M. Smith, R. Toomey, and M. Wiescher

