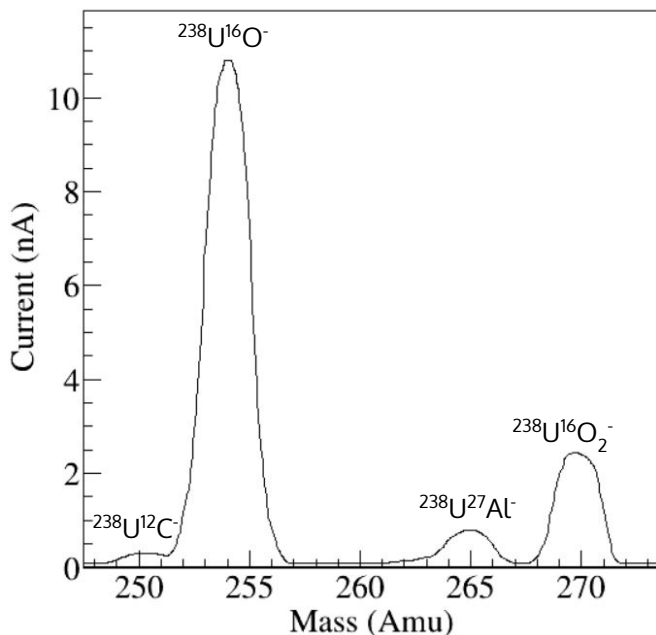


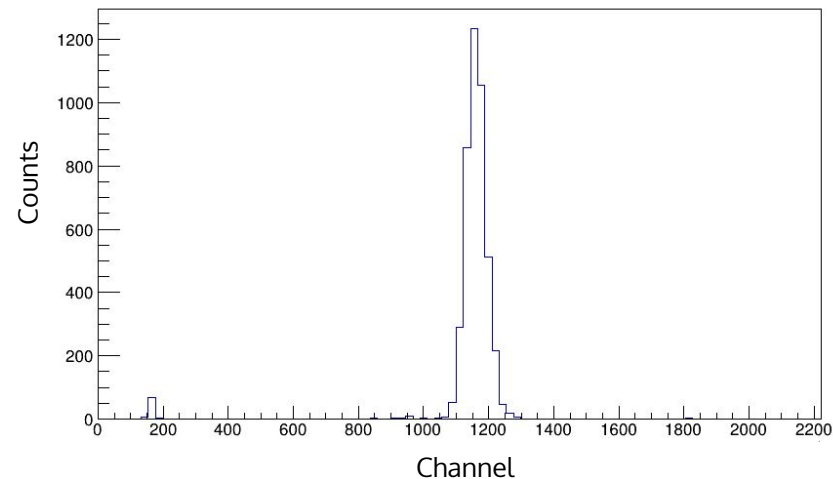
First Actinide Beam Production on FN Tandem Accelerator



Progress towards actinide AMS capabilities at the NSL have resulted in two major milestones for the program. UO^- ions were generated from the MC-SNICS ion source and measured for the first time following the low-energy injection system (upgraded in 2018, funded by the NSF). Additionally, ^{208}Pb ions, which will serve as a pilot beam for future actinide studies, were measured at the end of the AMS beamline (another NSL first).



An attenuated 40.1 MeV ^{208}Pb beam was measured using a Si detector at the end of the AMS beamline.



A mass scan of the low-energy injection magnet show ions produced from the MC-SNICS using depleted uranium oxide material.

A. M. Clark, T. Anderson, L. Callahan, P. Collon, A. D. Nelson, and M. Skulski

