

Radioactive Beams at FSU

We have constructed and commissioned a new facility for research with radioactive beams at FSU's superconducting linear accelerator. The facility, called RESOLUT, is a novel type of recoil mass separator, based on a superconducting RF resonator, operated phase-locked with the LINAC and a large acceptance magnetic spectrograph. One of the first runs is using a radioactive ^{25}Al beam at around 3 MeV/u in order to measure proton transfer reactions into resonances of ^{26}Si . We will present results from the first experiments performed at RESOLUT.