

Ti CSD run plan (Part VIII, May '06)

0) cooling and filling the trap.

change DAQ for IC

preparing CSB foils.

1) Ti²⁺ beam out of OLIS (MW source), tuning through RFQ, stripping to 7+, tuning through DTL to DRAGON gas target.

5 energies:

0.934 MeV/u (E(40Ca) = 1.13 MeV/u)

0.826 MeV/u (E(40Ca) = 1.00 MeV/u)

0.702 MeV/u (E(40Ca) = 0.85 MeV/u)

0.537 MeV/u (E(40Ca) = 0.65 MeV/u)

0.413 MeV/u (E(40Ca) = 0.50 MeV/u)

extensions: down to 0.150 MeV/u and up to 1.6 MeV/u

2) Tune through DRAGON, take atten. beam run in IC to measure beam contamination.

3) CSF measurement without CSB:

pressure: 0.5, 1, 2, 3, 4, 6, 8 Torr

4) CSF measurement with CSB

no gas, 1, 2, 4, 6, 8 Torr

5) measurement of effective target length:

at lowest energy measure energy loss (many points)

switch to small entrance/exit holes at the gas target, measure energy loss again.