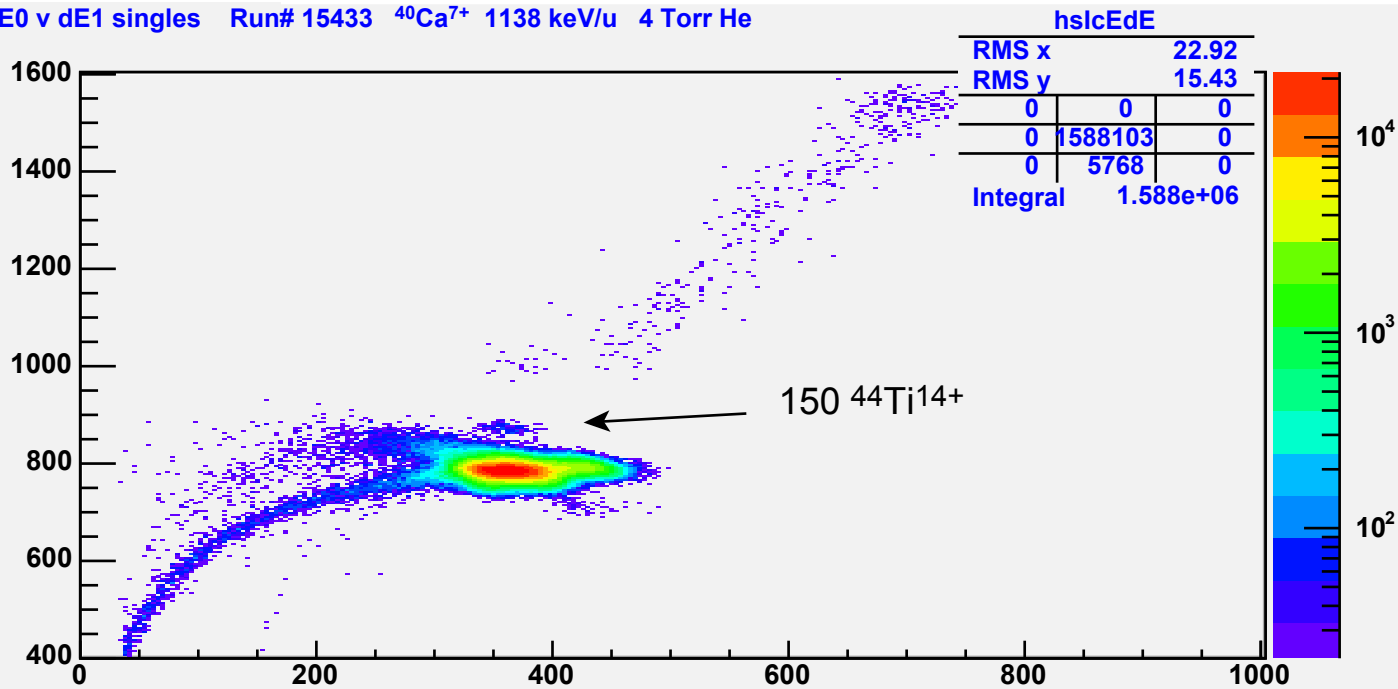


^{40}Ca run Aug 18 - 21 - A short History

- Aug 18: Keerthi could produce 100nA of $^{40}\text{Ca}^{++}$ from MW source we receive beam of $^{40}\text{Ca}^{7+}$ at 8 pm, we check beam contamination $^{40}\text{Ar}/^{40}\text{Ca} \sim 0.1\%$, beam energy initially too high 1160 keV/u, CSB foil broke during beam centering
- Aug 19: Marco finished tuning but had troubles with unstable beam from MW source, Keerthi switched over to HySIS. Receive beam at 5 pm, $^{40}\text{Ar}/^{40}\text{Ca} < 0.03\%$, initial beam energy measurements were not consistent due to Q1 off, took recoil run at this energy at 4 Torr He
- Aug 20: a careful energy measurement at 13+ and 12+ gives 1156 keV/u, ask for lower energy, receive beam at 11 am, measure 1138 keV/u, beam current is ~ 1 nA, take runs set for $^{44}\text{Ti}^{13+}$, some debugging of electronics we installed 55 $\mu\text{g}/\text{cm}^2$ window in IC to improve separation, some runs with XslitF narrower scaling to other charge states needs adjustment of tune
- Aug 21: runs of ^{44}Ti with charge states 13+, 14+, 15+, 15+, 16+ (no 12+ measurement because ED1 deconditioned to 165 kV), increased He pressure to 6 Torr, took run at 13+, 14+ Keerthi optimized OLIS, 4-8 nA at He target increased He pressure to 8 Torr, took run at 13+, CSB foil broke during pump out of gas target after replacement we took another run at 13+ at 0 Torr (CSB only) and 8 Torr, OLIS died during switch over to 14+

IC dE0 v dE1 singles Run# 15433 $^{40}\text{Ca}^{7+}$ 1138 keV/u 4 Torr He



IC dE0 v dE1 coinc. Run# 15433 $^{40}\text{Ca}^{7+}$ 1138 keV/u 4 Torr He

