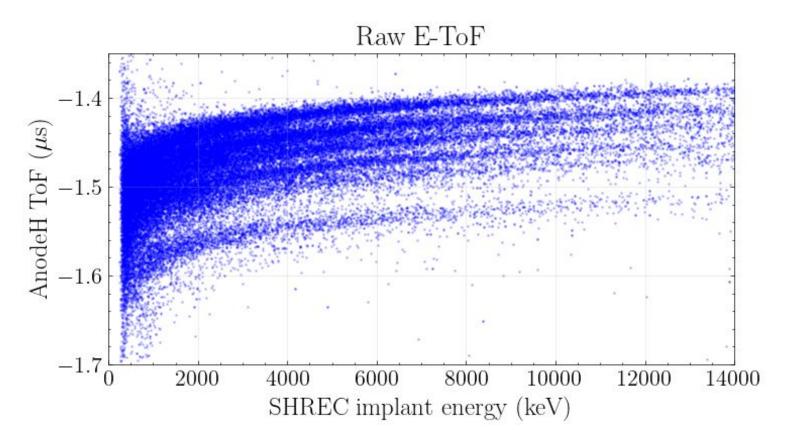
PPAC Stuff

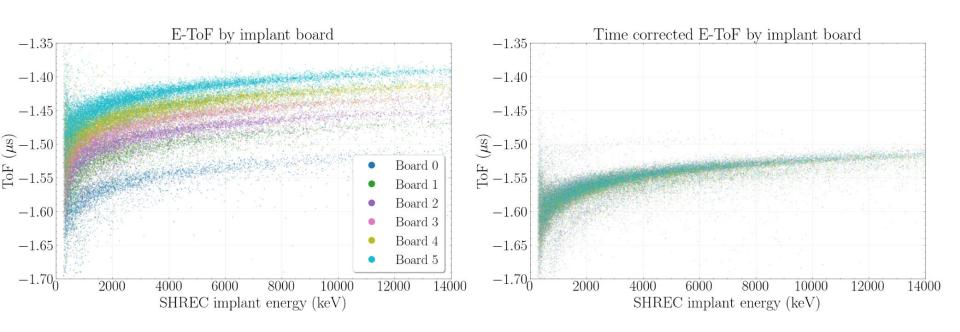
Raw etof



Time corrected etof

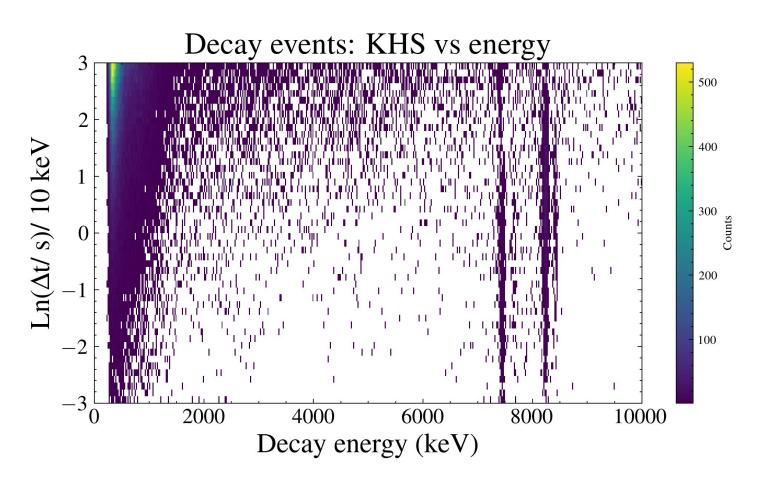
Stats: All three PPAC signals: 75295 (10.2%) Exactly two PPAC signals: 1156 (0.2%) Exactly one PPAC signal: 705 (0.1%) At least one PPAC signal: 77156 (10.5%)

No PPAC signals: 660362 (89.5%)



[At least one] = 2% improvement in stats over [all three]

Decay candidates - anti ppac coincidence req



Correlations

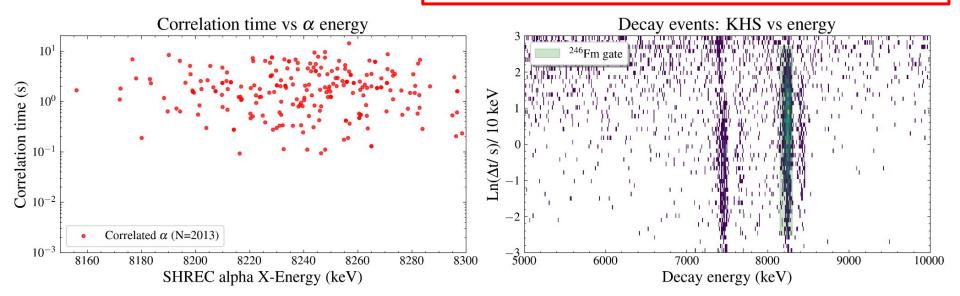
Total correlated events: 383
Same pixel correlations: 327 (85.4%)
Neighboring pixel correlations: 56 (14.6%)

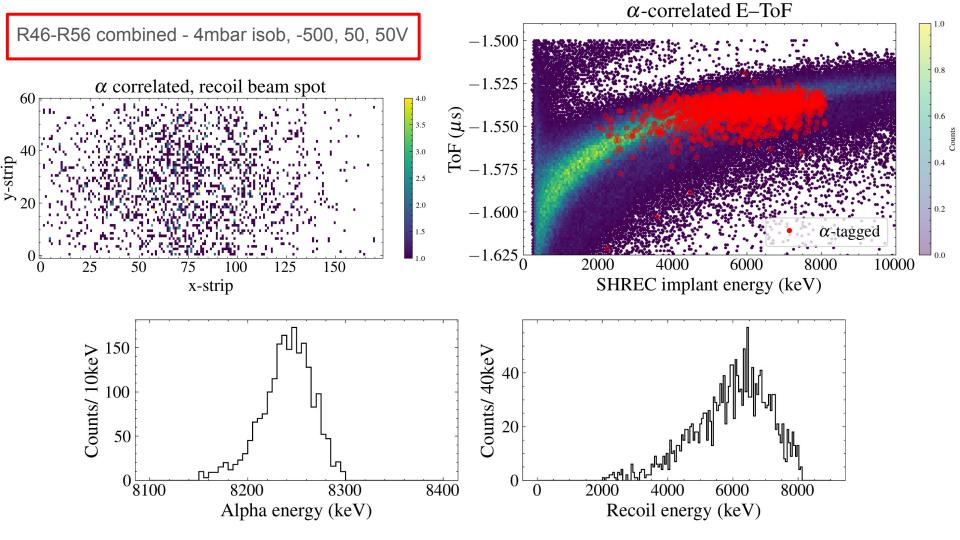
EVRs: 1000-8099 keV (all three ppac req) Alphas: 8100-8400 keV (ant-ppac req)

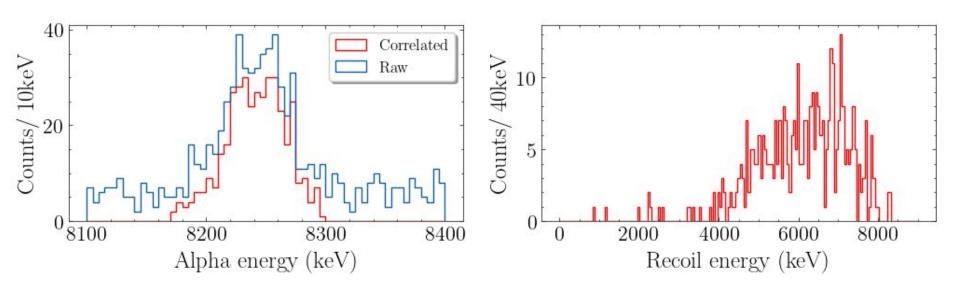
Loop through alpha candidates, retrieve pixel hist (and neighbours), look back in time and

correlate with closest EVR

R46-R56 combined - 4mbar isob, -500, 50, 50V



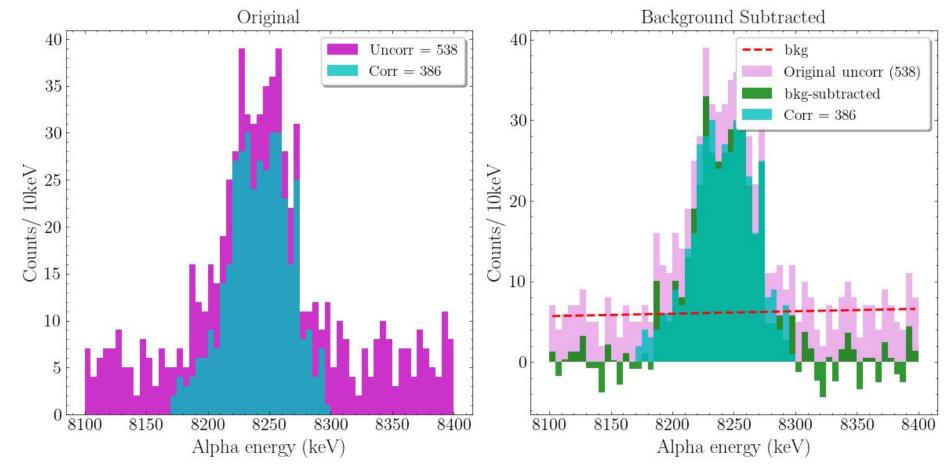




10 half-lives search time... = 99.9% corr / raw
We get 386 / 538 = 72% (with a tight alpha energy gate)

Missing EVRs? Or Background contribution?

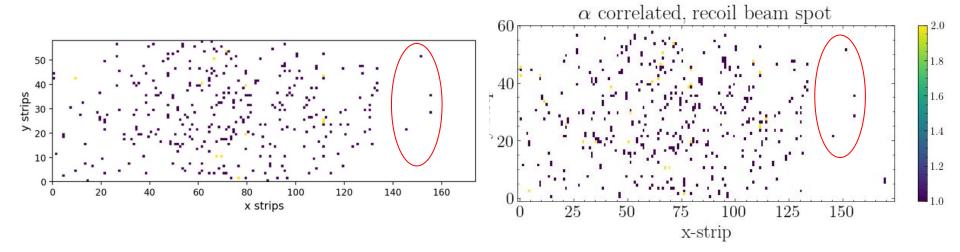
Correlated vs. raw alphas



Rodney vs. Jamie 💪

Correlated events (8100-8400 alpha) (2000-8099 EVR) = 339 (R), 433 (J)

Evr-a / 1k ruth = 1.95 (R), 2.52 (J)

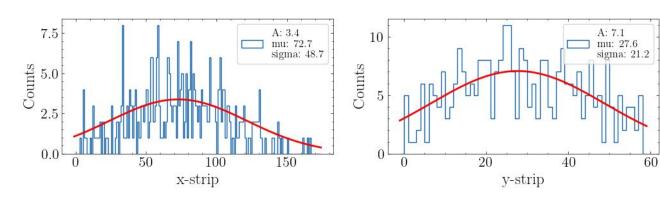


PPAC vs. No ppac Prelim

Run 51 (3.04hrs, ppac) vs Run 57 (3.74 hrs, no ppac)

EVR-alphas / 1k ruth : 1.97 (R51), 1.3 (R57)

With PPAC



No PPAC

