

More on S438 experiment

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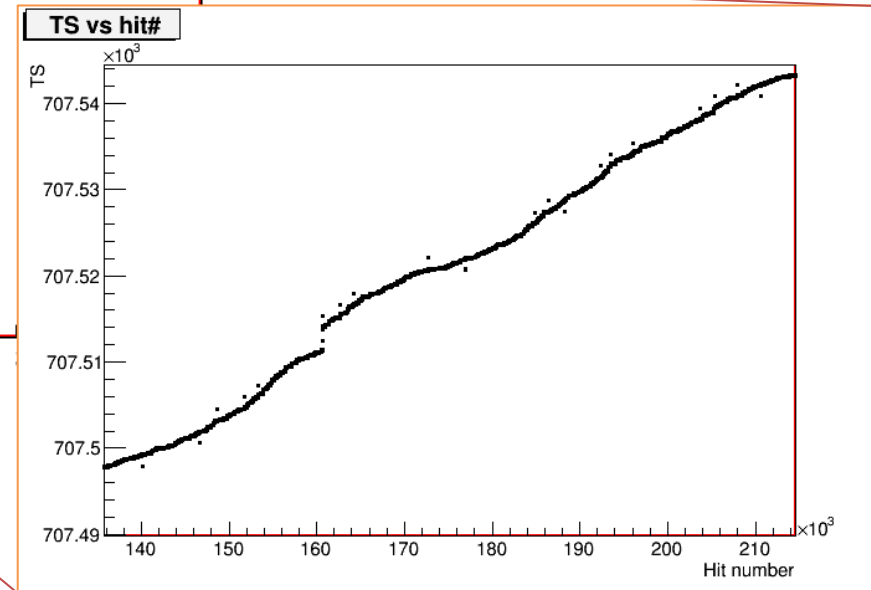
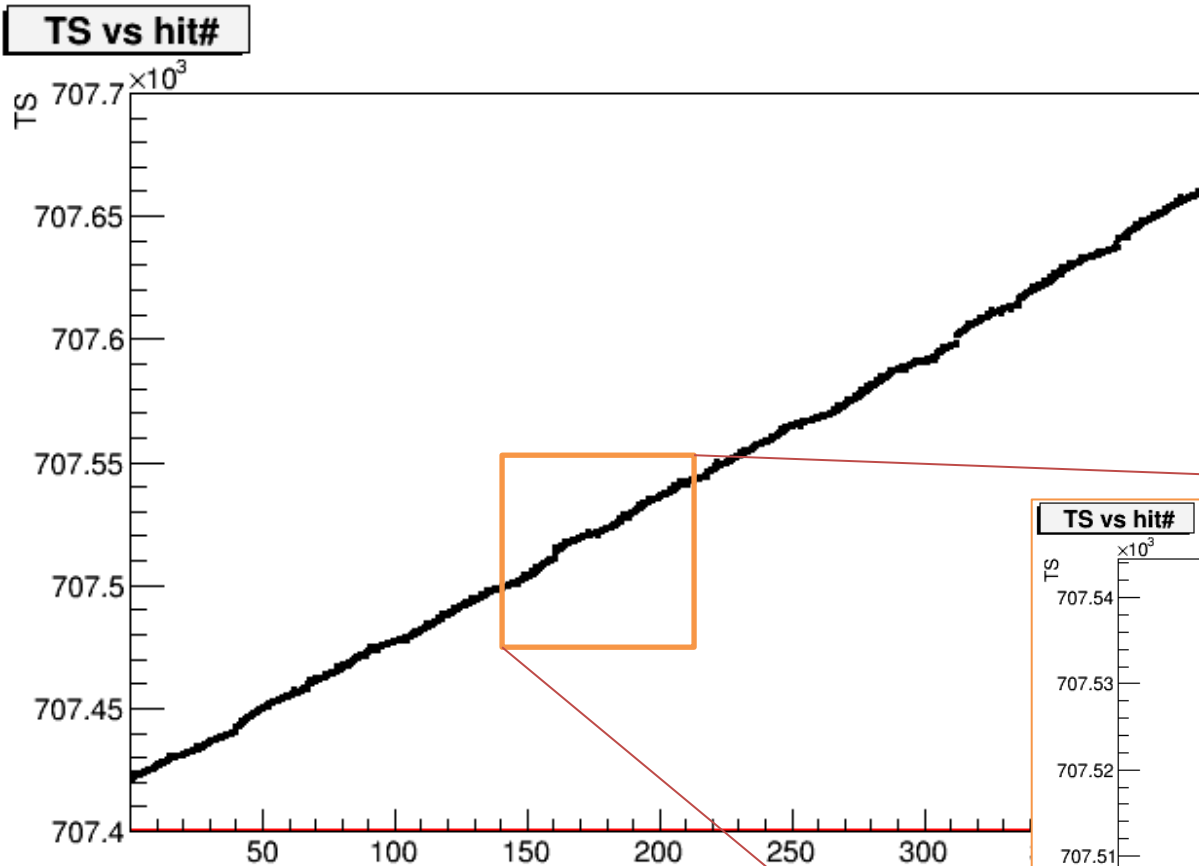
Data from the
Si Target-Recoil Tracker

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(using r3broot)

Time stamp reconstruction

Run 280-3364:
 ^{12}C target

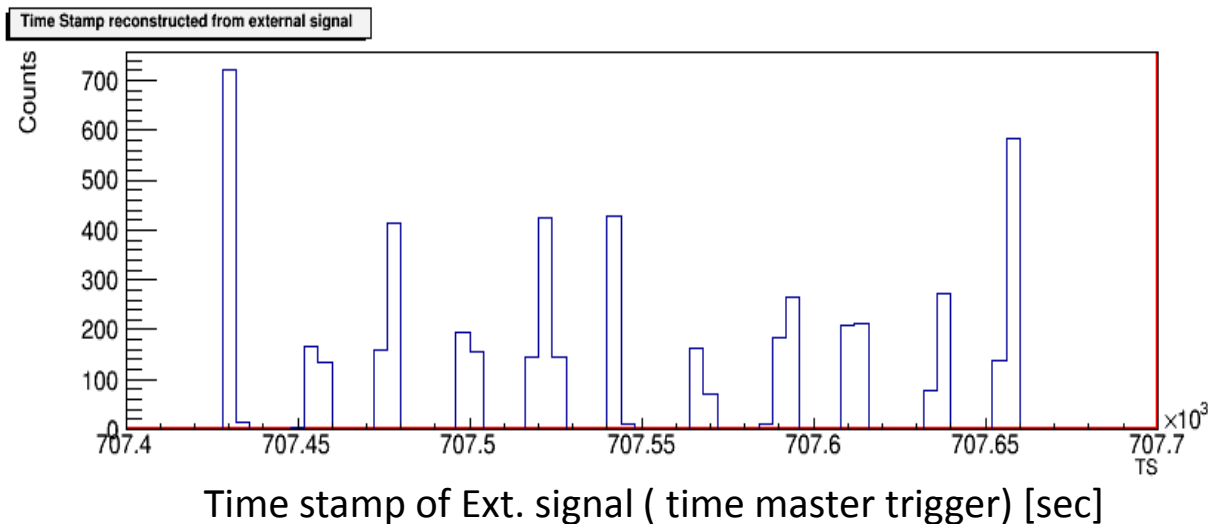
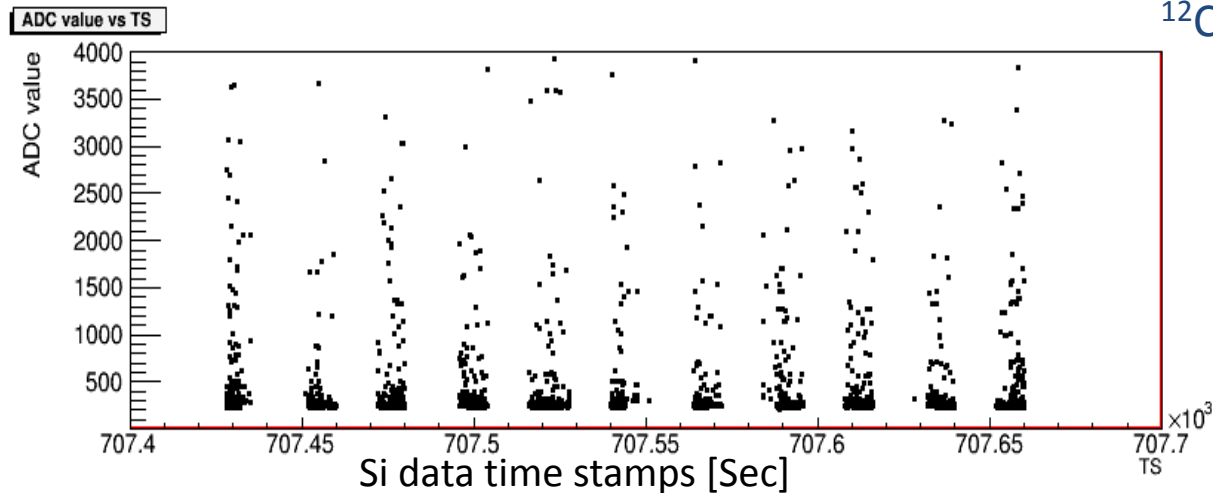


Si data roughly ordered in time ...

... but still some time ordering to do !

Si data (p-side) & Ext Signal (time master trigger)

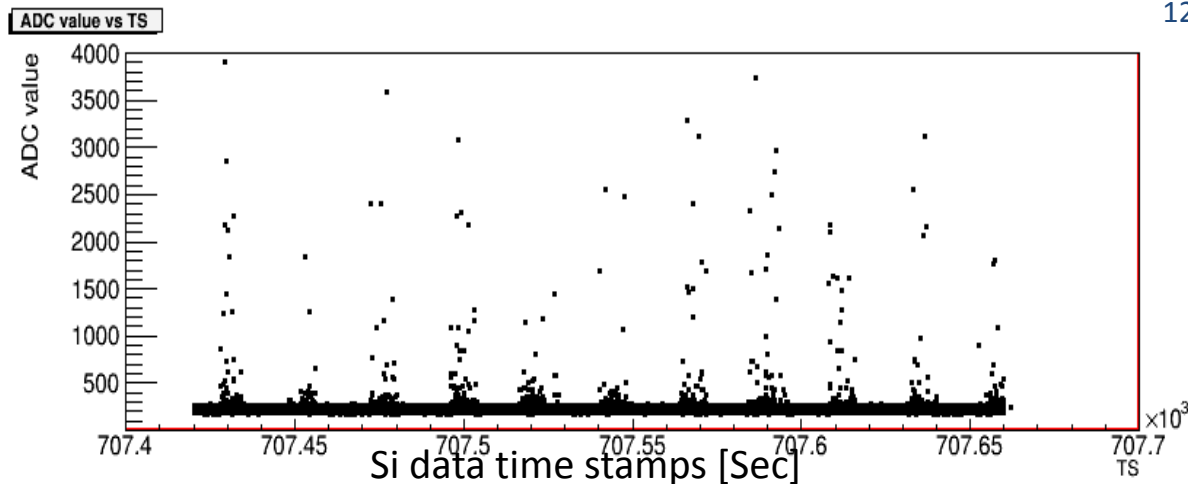
Run 280-3364:
 ^{12}C target



Si data (n-side) & Ext signal (time master trigger)

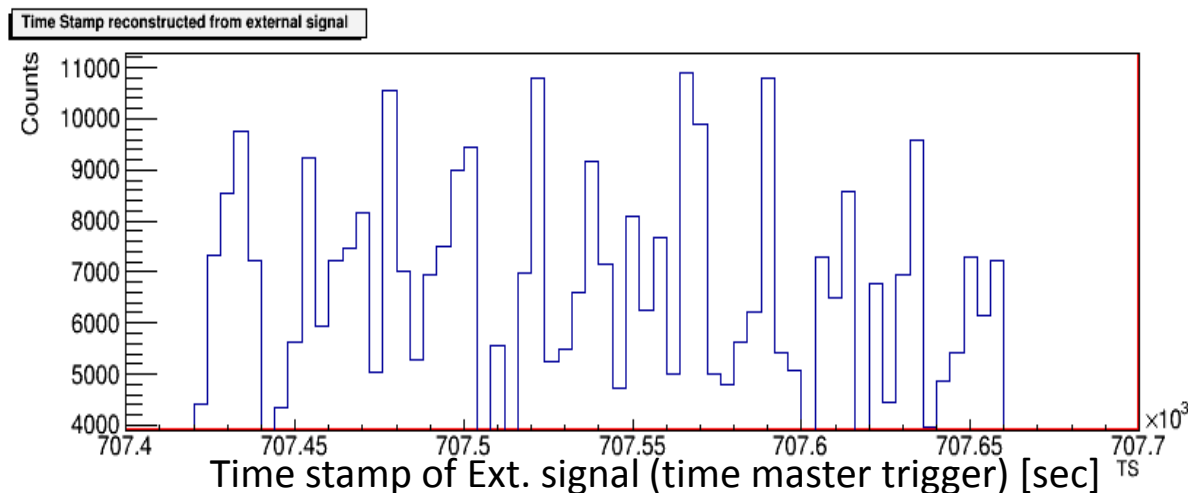
Run 280-3364:

^{12}C target



Lower threshold
applied to n-side

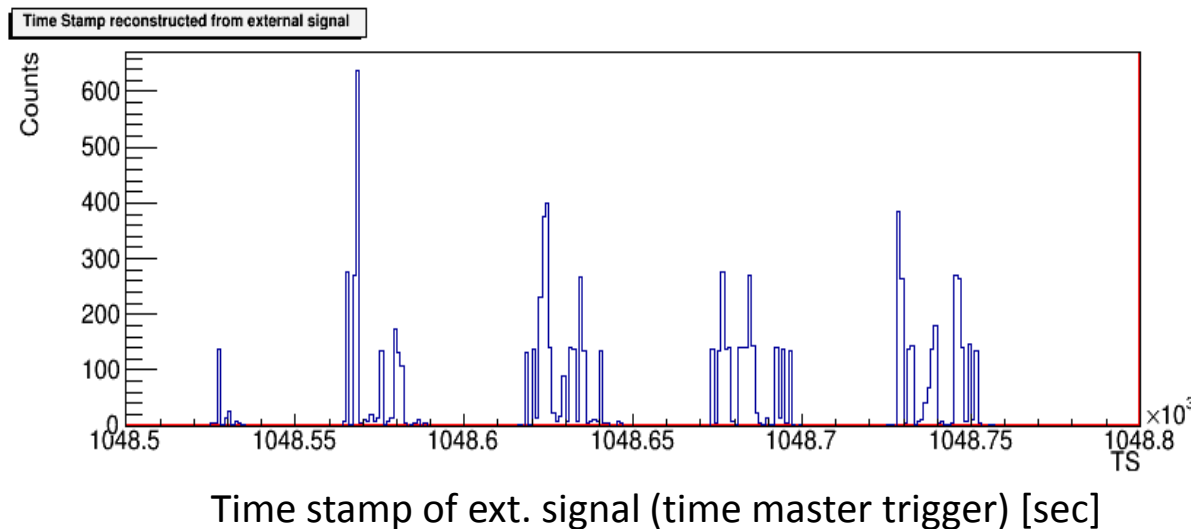
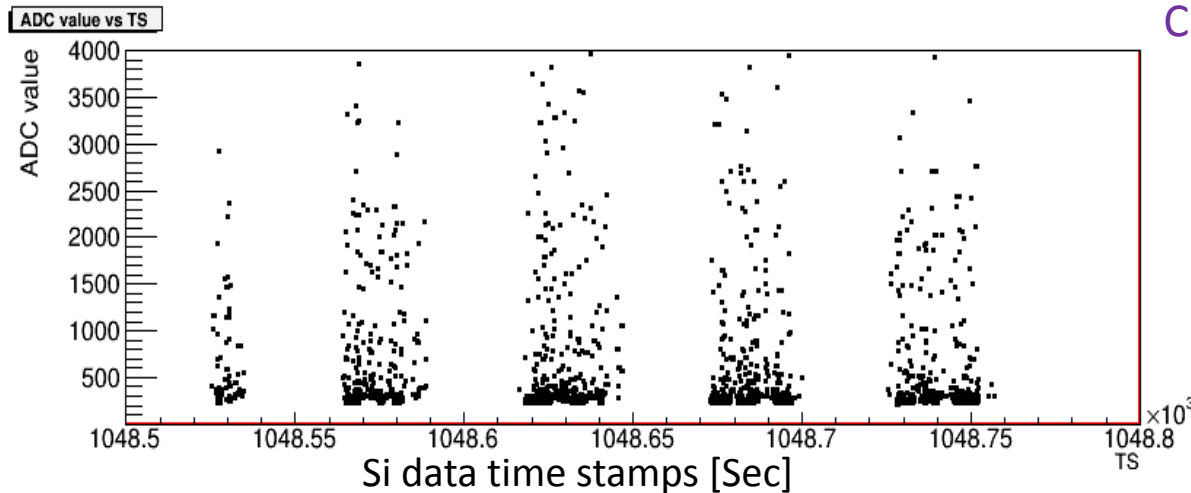
→ Noisier



Time stamp of some
Trigger signal fall
between 2 Si data
packets ?

Si data (p-side) & Ext signal (time master trigger)

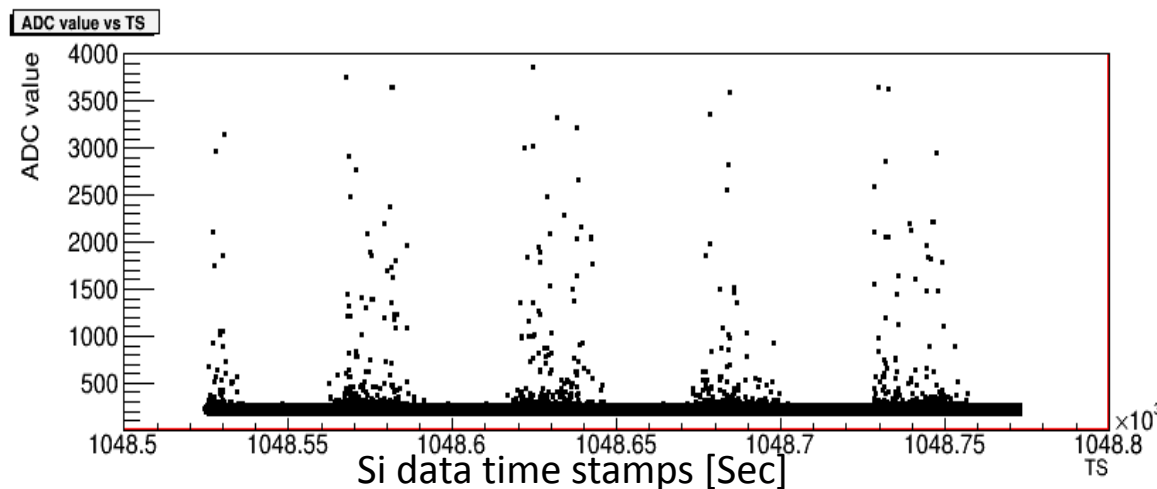
Run 290-3777:
CH2 target



Si data (n-side) & Ext signal (time master trigger)

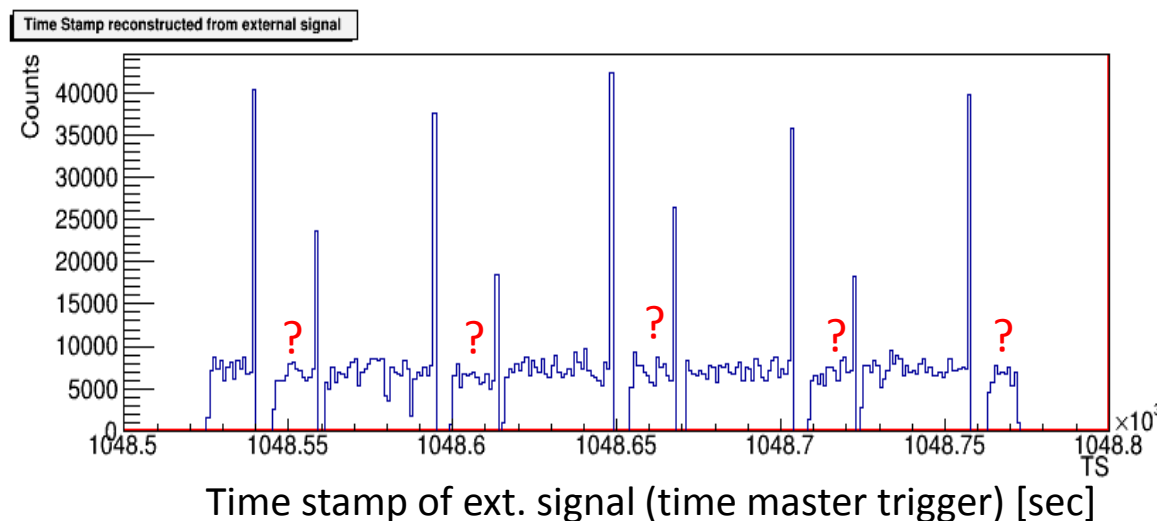
Run 290-3777:

CH2 target



Lower threshold
applied to n-side

→ Noisier

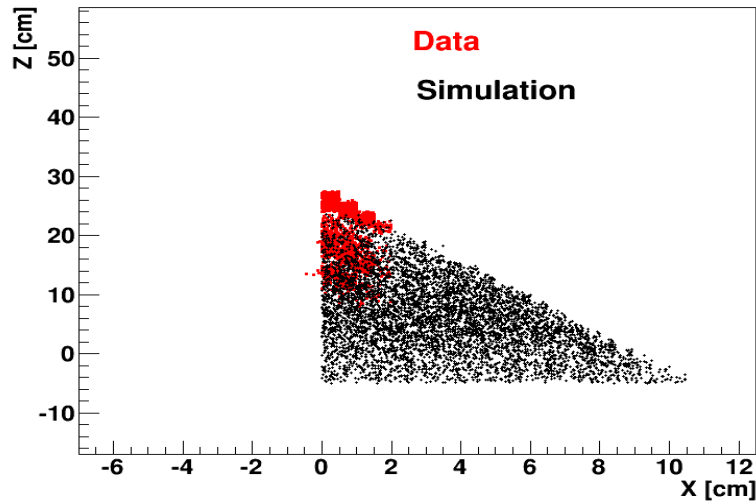


Time stamp of some
Trigger signal fall
between 2 Si data
packets ?

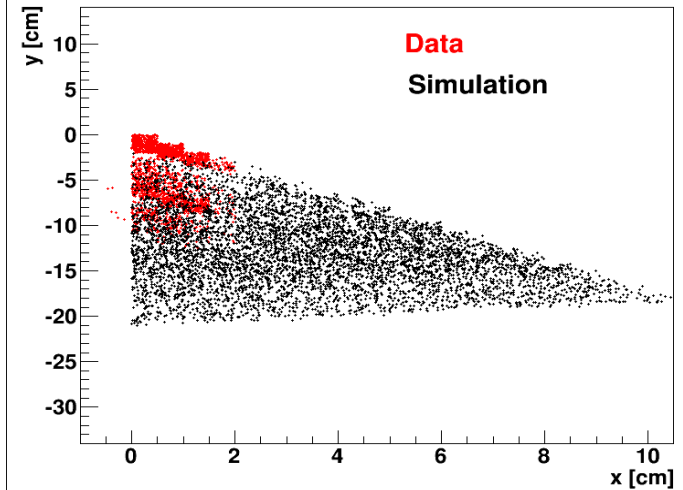
Position X, Y, Z in lab

With the condition that there is at least one strip hit on both side

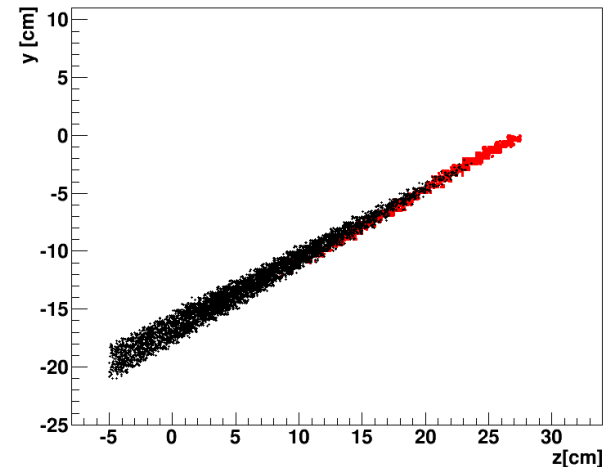
Z vs X in Lab (Reconstructed from hit strips)



Y vs X in Lab (Reconstructed from hit strips)



Y vs Z in Lab (Reconstructed from hit strips)



Data from s438:

Run280_3364.lmd (^{12}C target)

- Simulation: simple isotropic proton source
- Same Reconstruction algorithm applied to both real and simulated data.
- No timing condition applied