

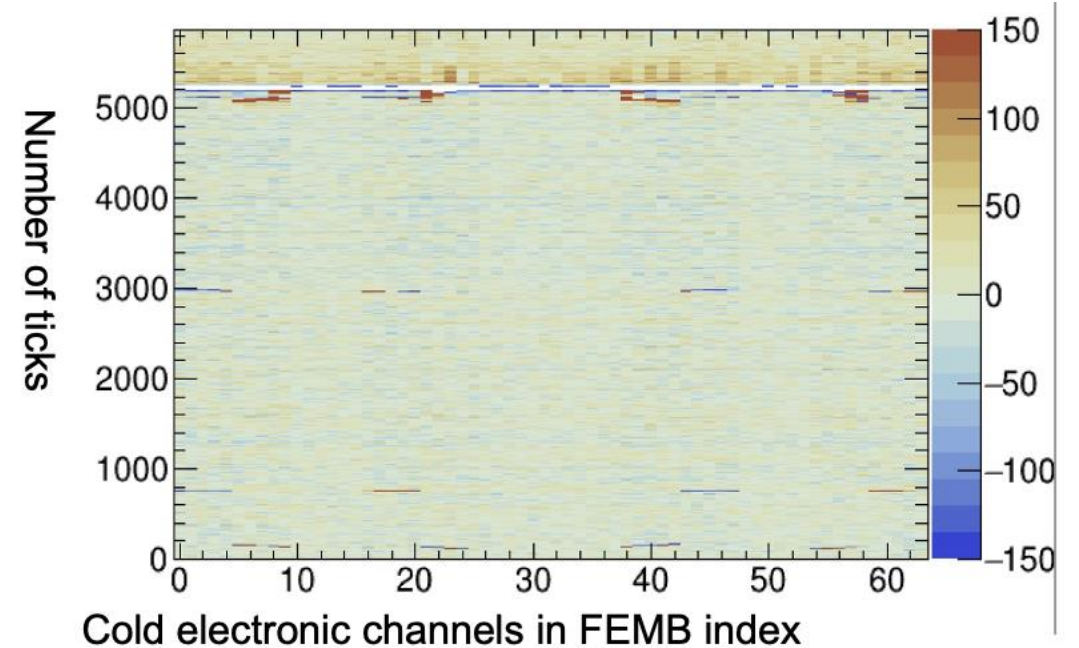
Update for imaging validation

Xuyang Ning

Bad channels

Tags:

- “bad”: require input to define, is empty
- “If_noisy”: defined by Noise Filter, will generate a lot of bad channels, need check
- “noisy”: not put into use previously.
- “femb_noise”: haven’t included in master.
- In the end all tag will be merged to “bad”



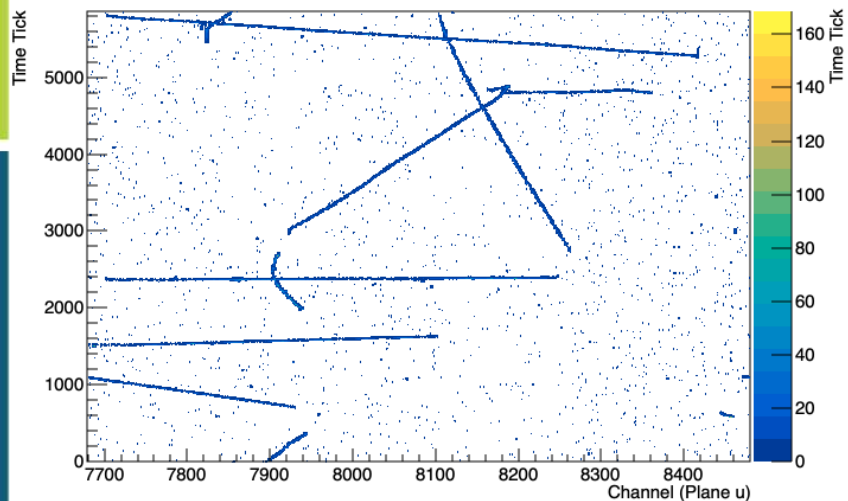
nthreshold

- Threshold: applied on wiener charge, $n_{\text{threshold}} \times \text{rms}$
 - rms is calculated in signal processing
 - Different per channel
-
- Extract the rms vs channel
 - Draw wiener_charge/rms

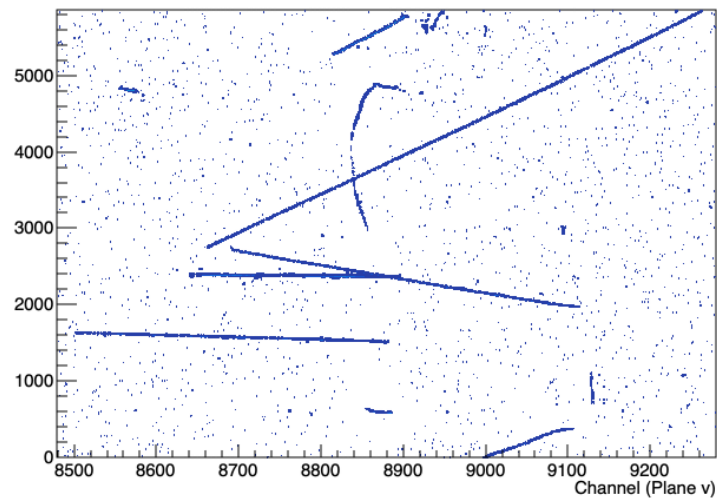
```
// A function that sets up slicing for an APA.
slicing :: function(anode, aname, span=4, active_planes=[0,1,2], n
ret: g.pnode({
  type: "MaskSlices",
  name: "slicing-"+aname,
  data: {
    tick_span: span,
    wiener_tag: "wiener%d" % anode.data.ident,
    charge_tag: "gauss%d" % anode.data.ident,
    error_tag: "gauss_error%d" % anode.data.ident,
    anode: wc.tn(anode),
    min_tbin: 0,
    max_tbin: 8500,
    active_planes: active_planes,
    masked_planes: masked_planes,
    dummy_planes: dummy_planes,
    nthreshold: [1e-6, 1e-6, 1e-6],
    // nthreshold: [3.6, 3.6, 3.6],
  },
}, nin=1, nout=1, uses=[anode]),
}.ret,
```

Compare different threshold

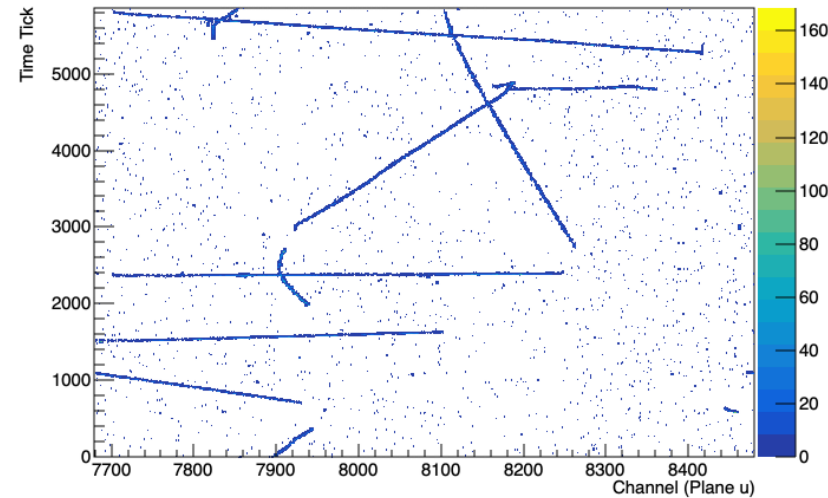
Normalized by RMS (3) (Thresholded < 0.00)



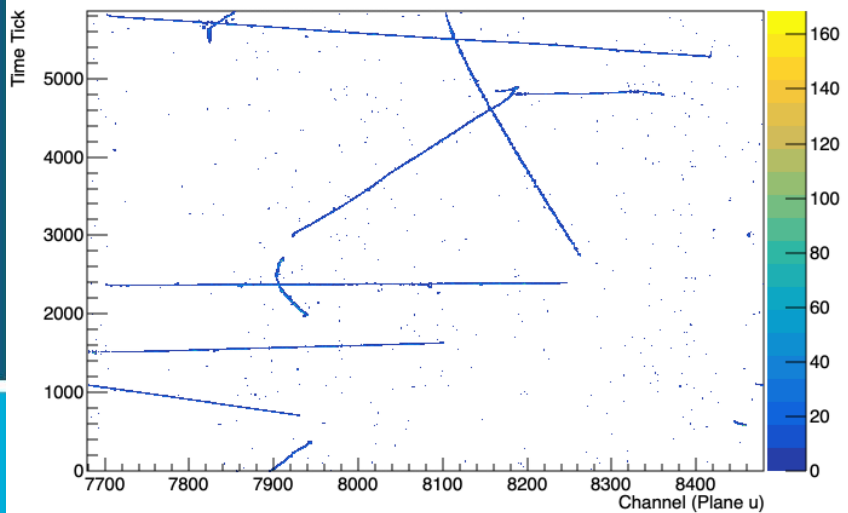
Normalized by RMS (3) (Thresholded < 0.00)



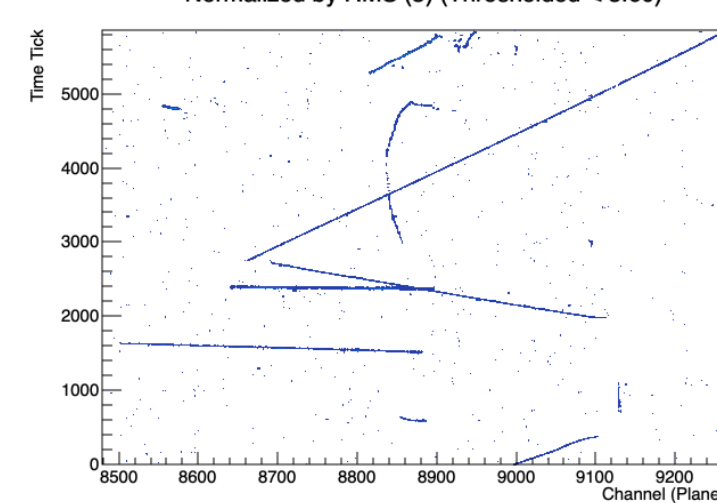
Normalized by RMS (3) (Thresholded < 0.00)



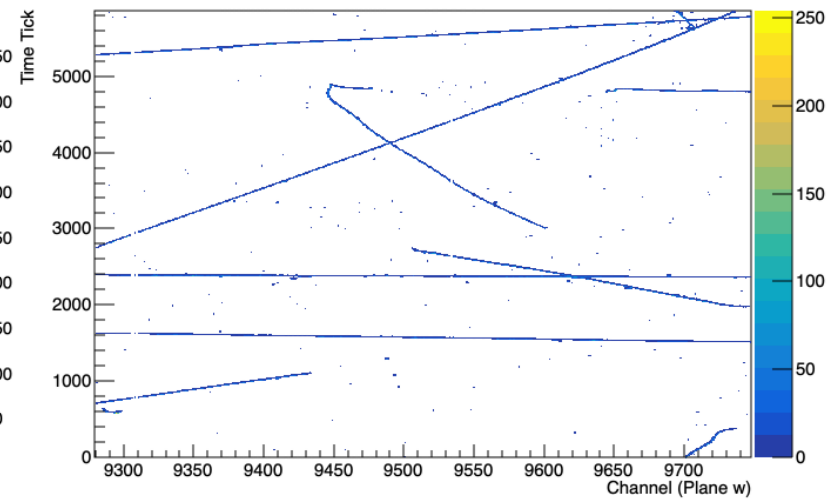
Normalized by RMS (3) (Thresholded < 3.60)



Normalized by RMS (3) (Thresholded < 3.60)

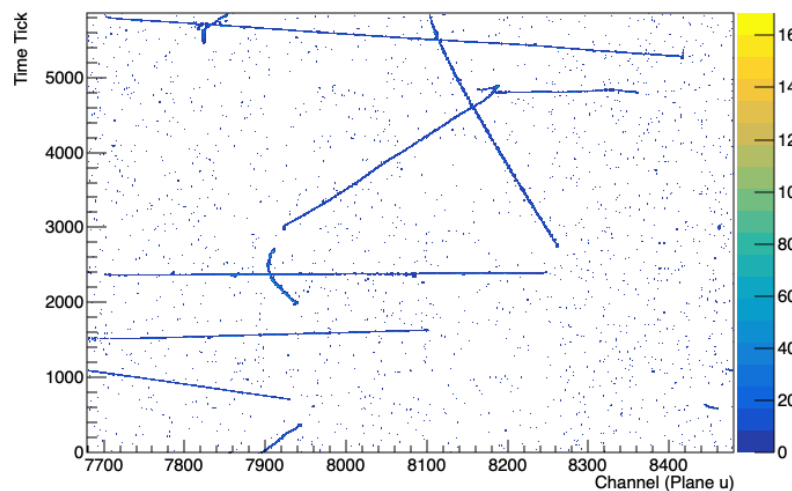


Normalized by RMS (3) (Thresholded < 3.60)

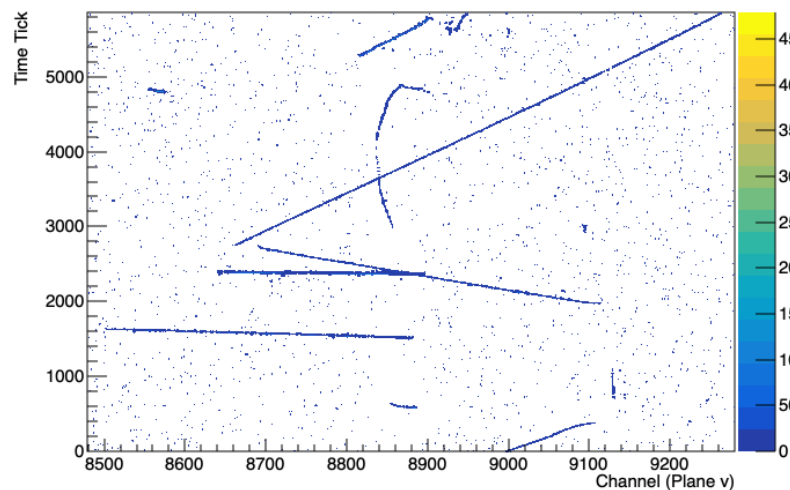


Compare different threshold

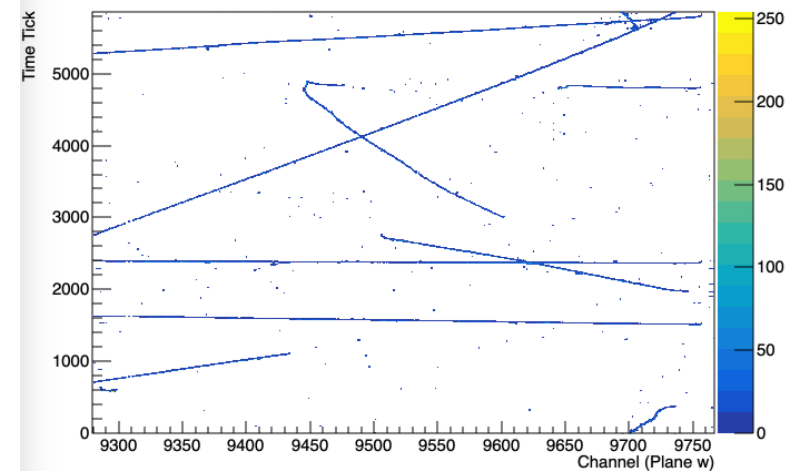
Normalized by RMS (3) (Thresholded < 2.00)



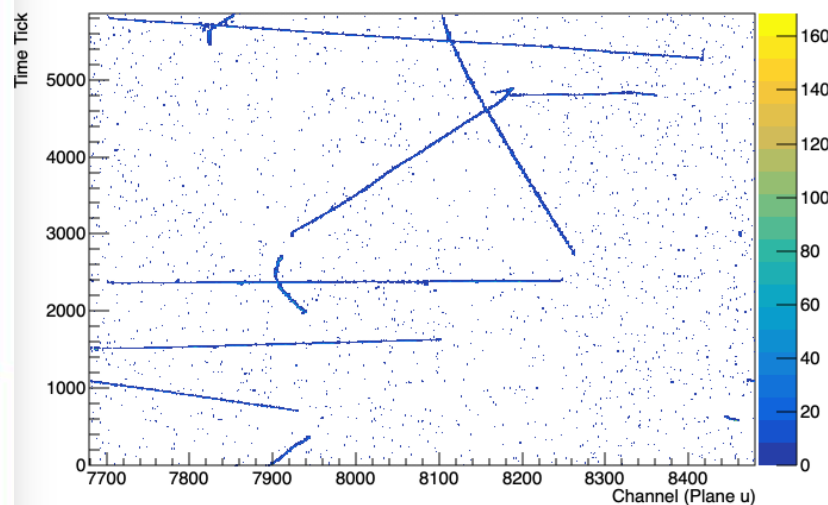
Normalized by RMS (3) (Thresholded < 2.00)



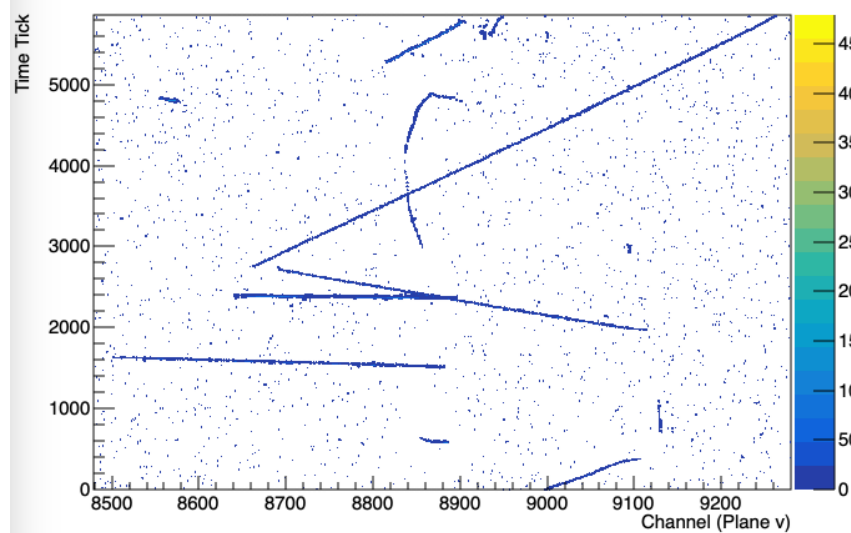
Normalized by RMS (3) (Thresholded < 2.00)



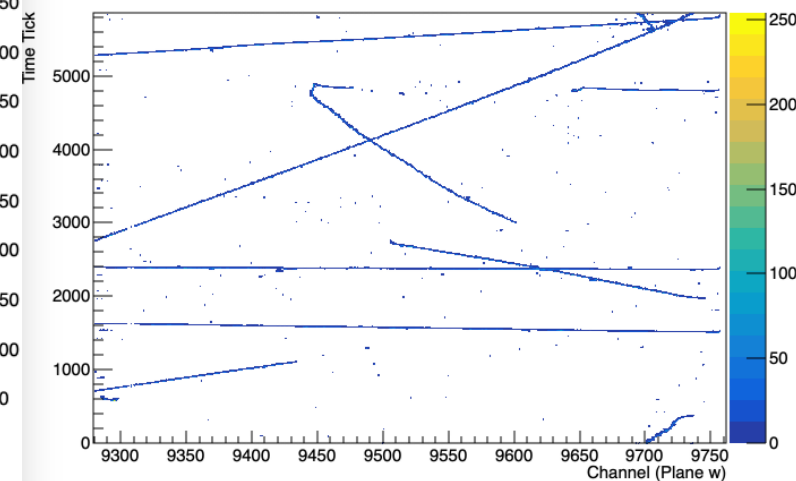
Normalized by RMS (3) (Thresholded < 1.00)



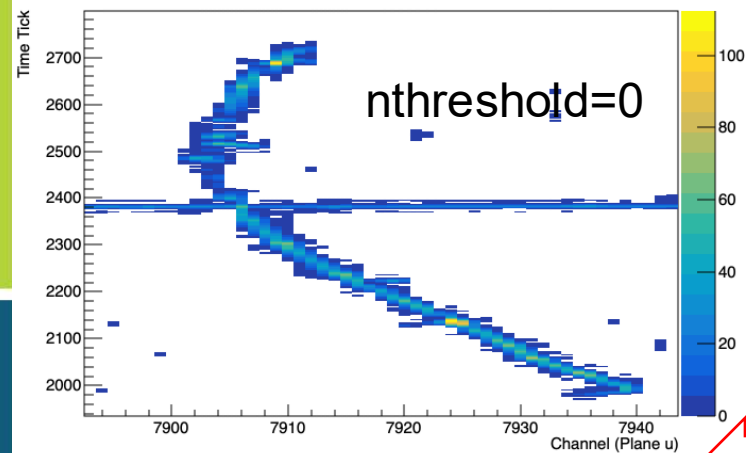
Normalized by RMS (3) (Thresholded < 1.00)



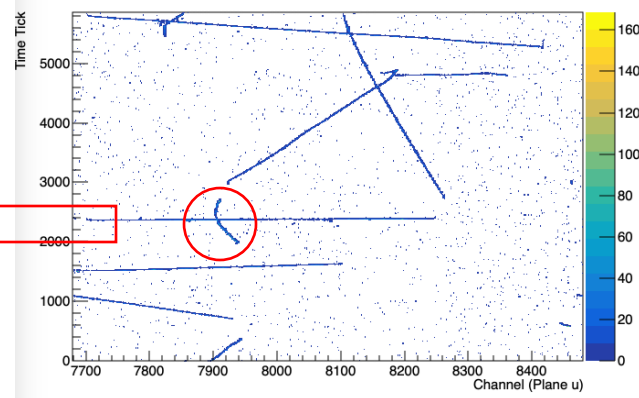
Normalized by RMS (3) (Thresholded < 1.00)



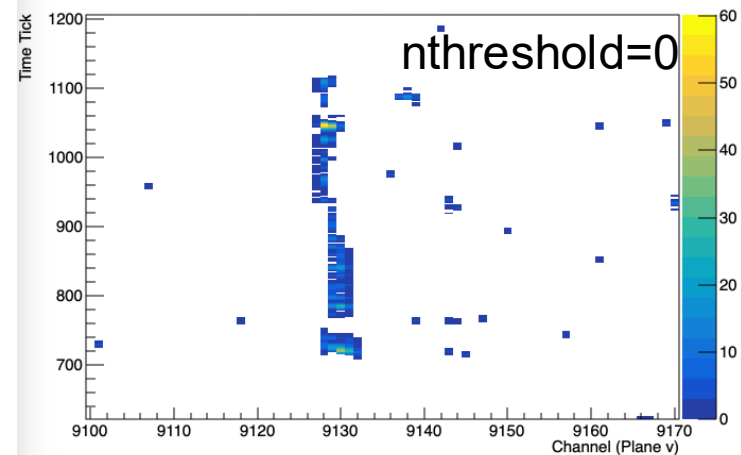
Normalized by RMS (3) (Thresholded < 0.00)



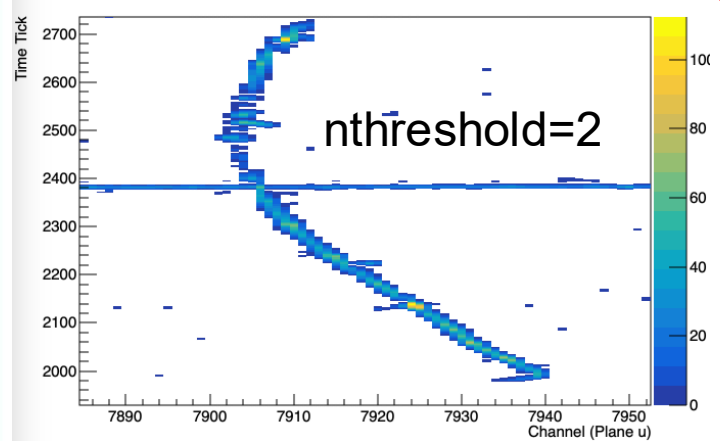
Normalized by RMS (3) (Thresholded < 1.00)



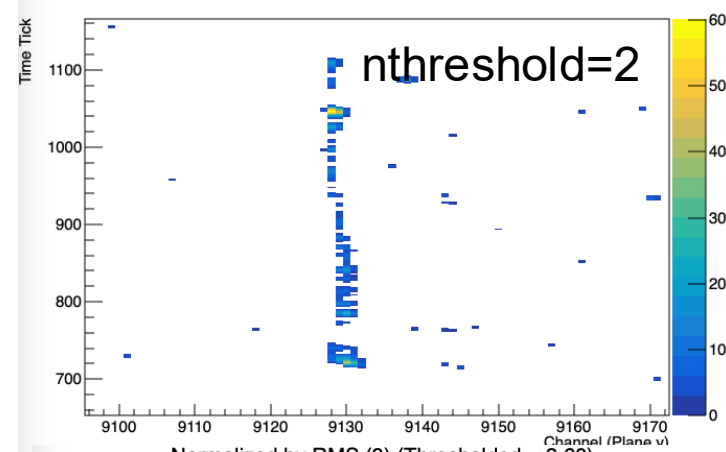
Normalized by RMS (3) (Thresholded < 0.00)



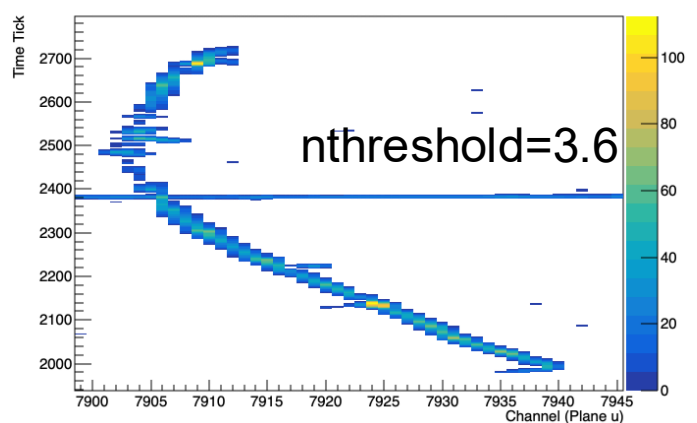
Normalized by RMS (3) (Thresholded < 2.00)



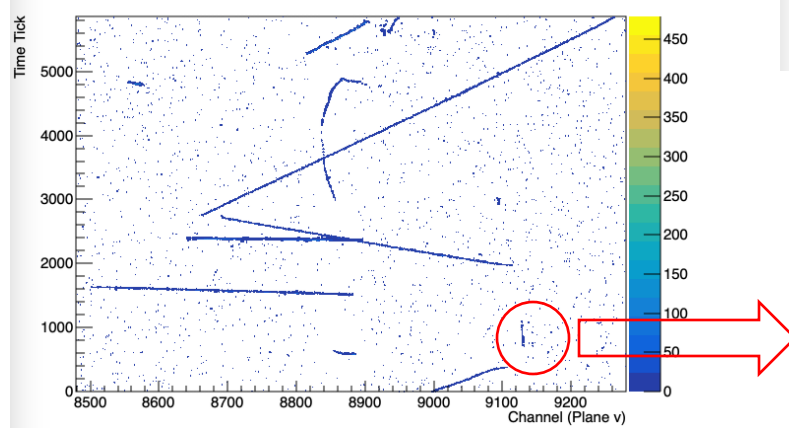
Normalized by RMS (3) (Thresholded < 2.00)



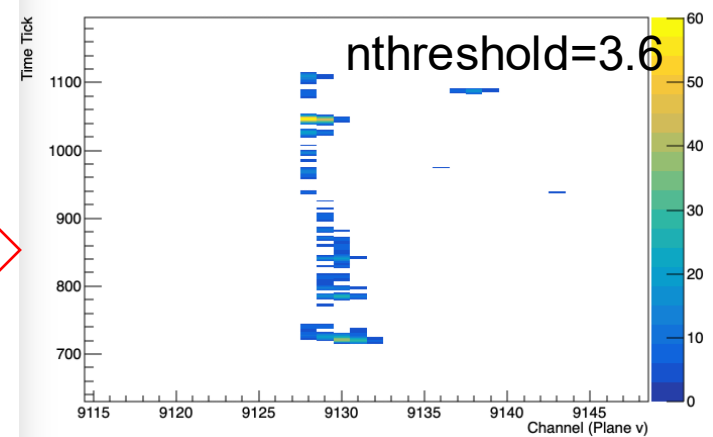
Normalized by RMS (3) (Thresholded < 3.60)



Normalized by RMS (3) (Thresholded < 1.00)



Normalized by RMS (3) (Thresholded < 3.60)

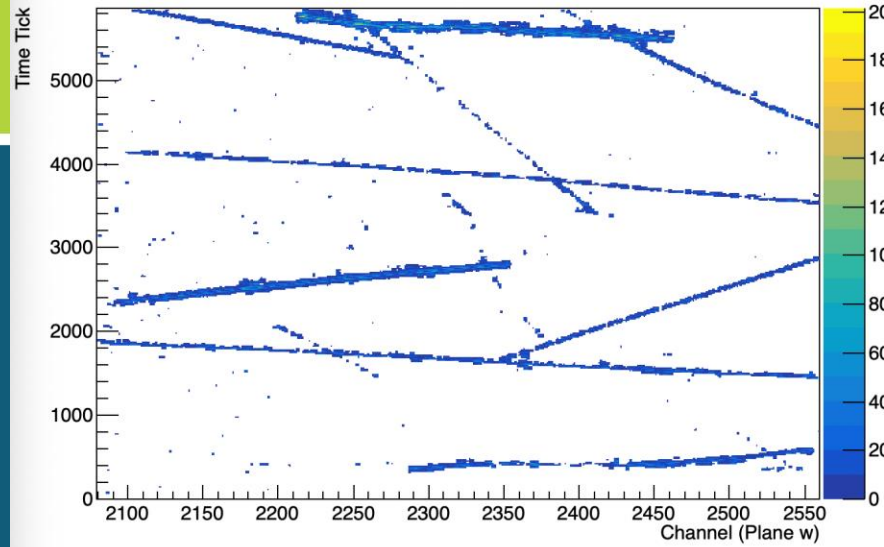




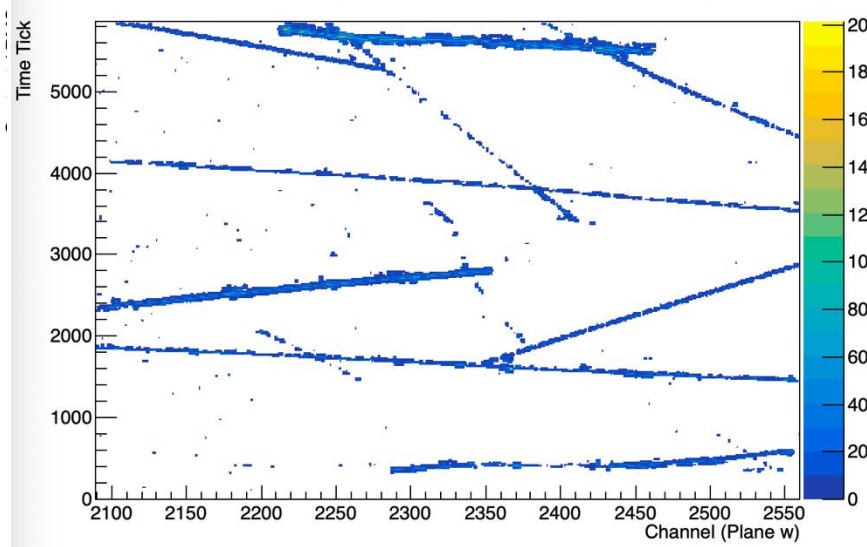
backup

W plane

Normalized by RMS (0) (Thresholded < 3.60)



Normalized by RMS (0) (Thresholded < 2.00)



Normalized by RMS (0) (Thresholded < 0.00)

