A look at Day-2 Ne-Ethane data

SNW (appendix to Day slides) Mar. 13, 2015

this is a first look at the data with 440-650 bias configuration. Browsing the data it appears that ~1/2 of events have no signal but the first 750 events are consistently about 3 V in amplitude. As I understand it, the improvement vs. day-1 is that the lower laser frequency allowed optimizing the pre-amplification in the drift gap, which significantly reduces the effect of diffusion. Can't wait to see CF4 data!

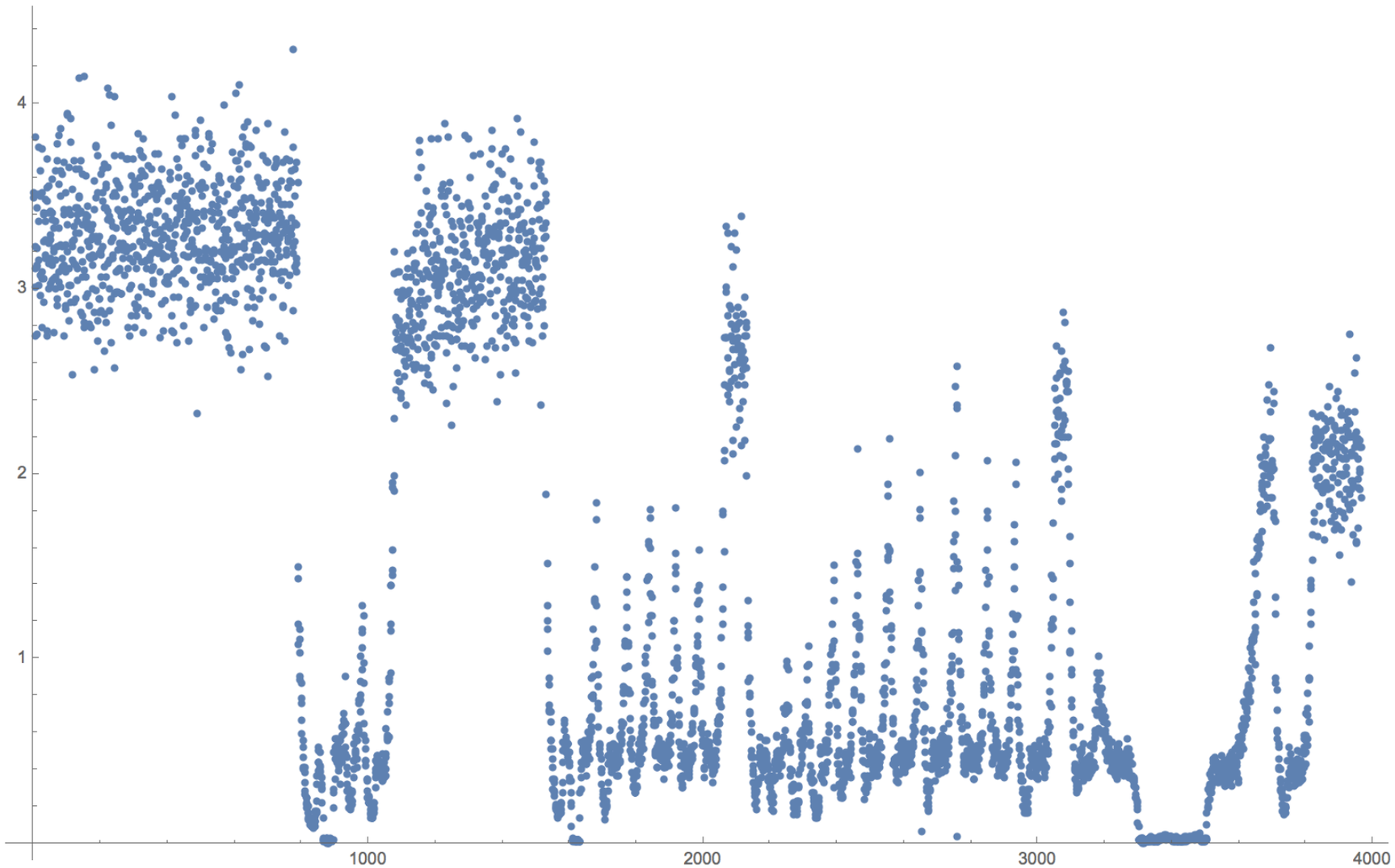
One word of caution is that we may actually do better by correcting for jitter on the trigger signal from the photodiode. But this is already an amazing result>

Group photo

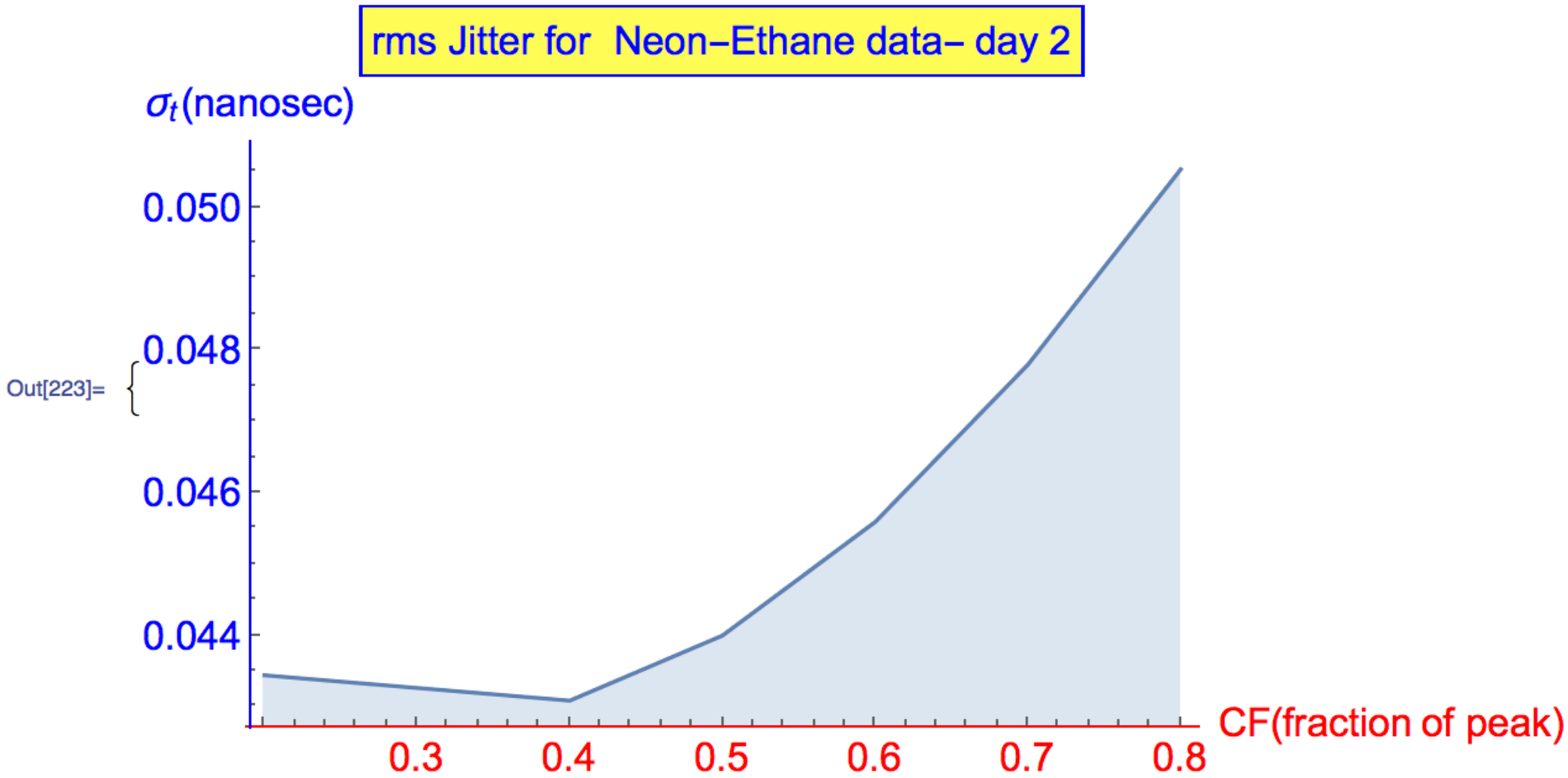
amplitude vs. event no.

In[137]:= `ListPlot[pk1]`

Out[137]=



jitter in 1st 750 events



Out[223]=

0.2	0.0434365
0.4	0.0430806
0.5	0.043993
0.6	0.0455856
0.7	0.0477906
0.8	0.0505277