

Cherenkov Update

January 19, 2012
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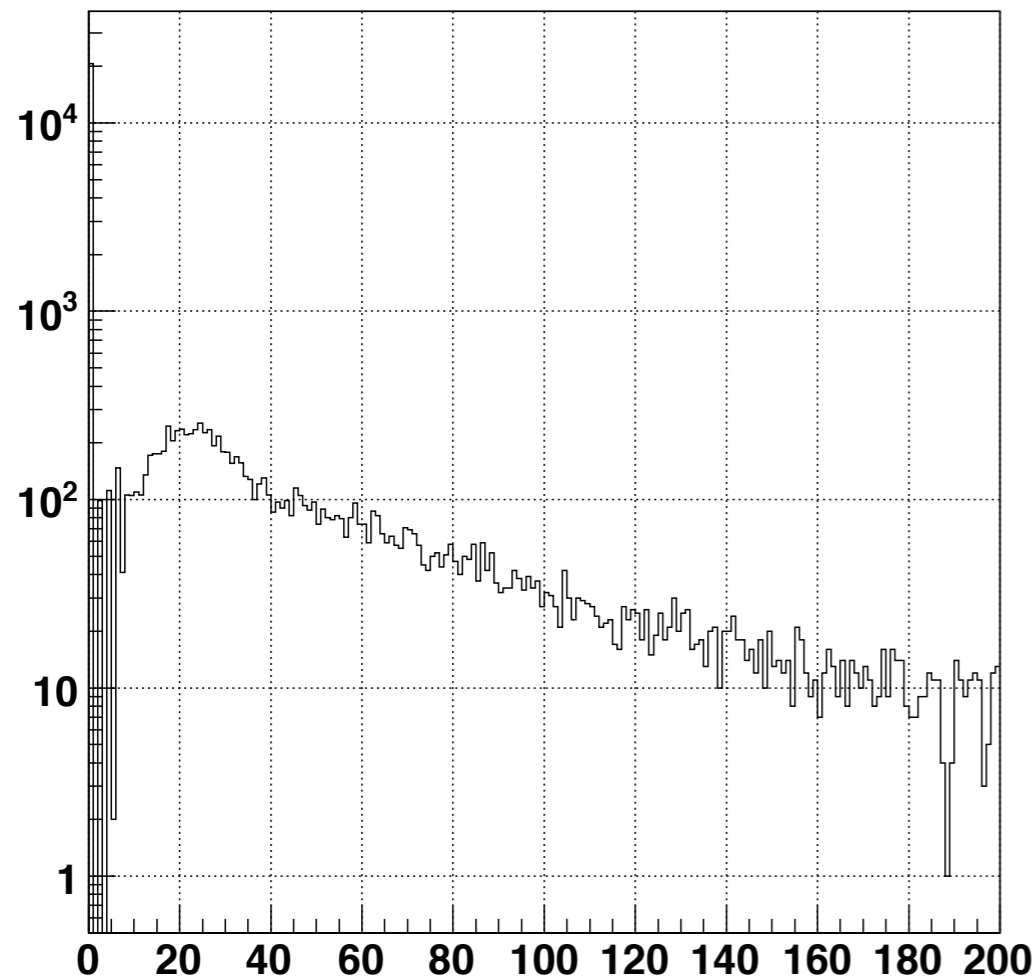
Ckov A

Ckov B

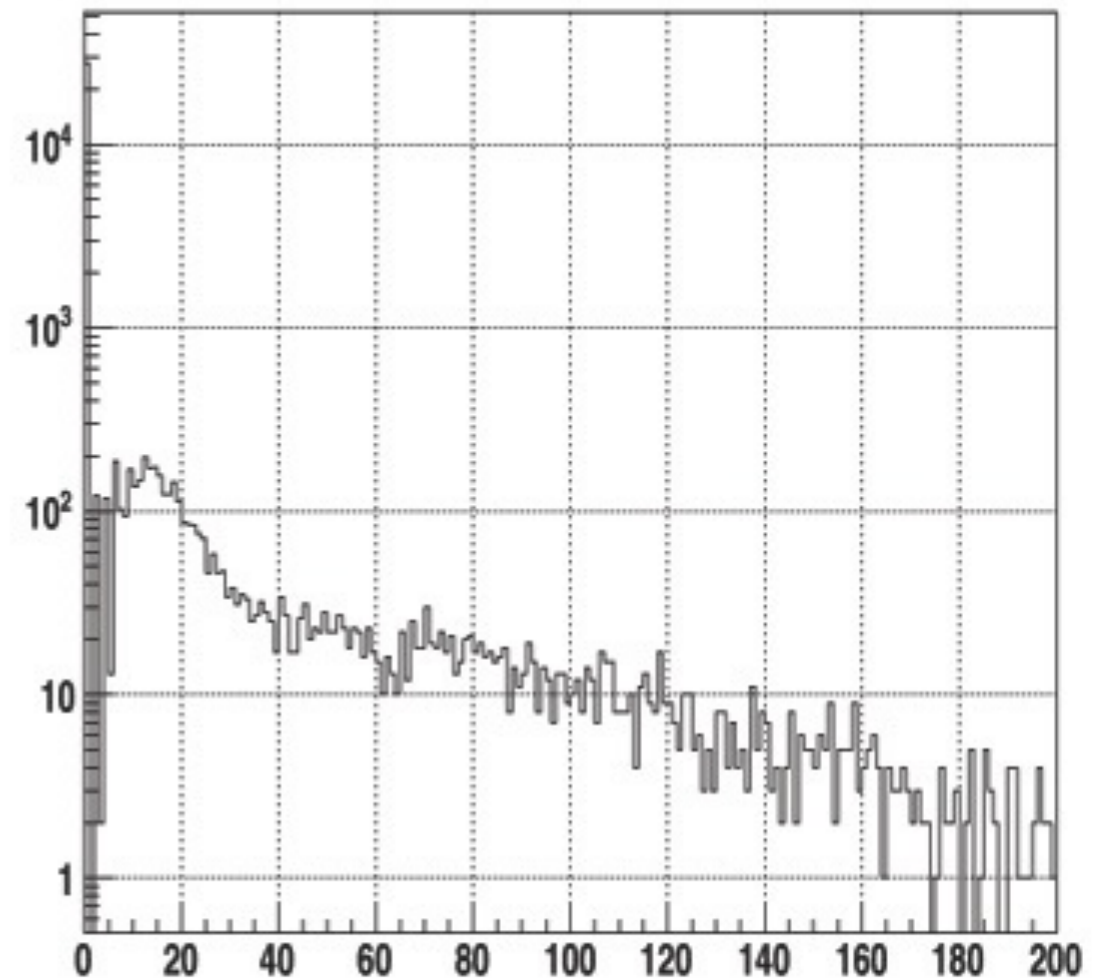


The largest peak is found and its position (min) is recorded
A peak search is done within a range of the recorded position
The peaks are integrated with a range of min-10 to min+20
The integrated peaks are then combined into a total charge

Charge in PMT 5 (Ckov A)

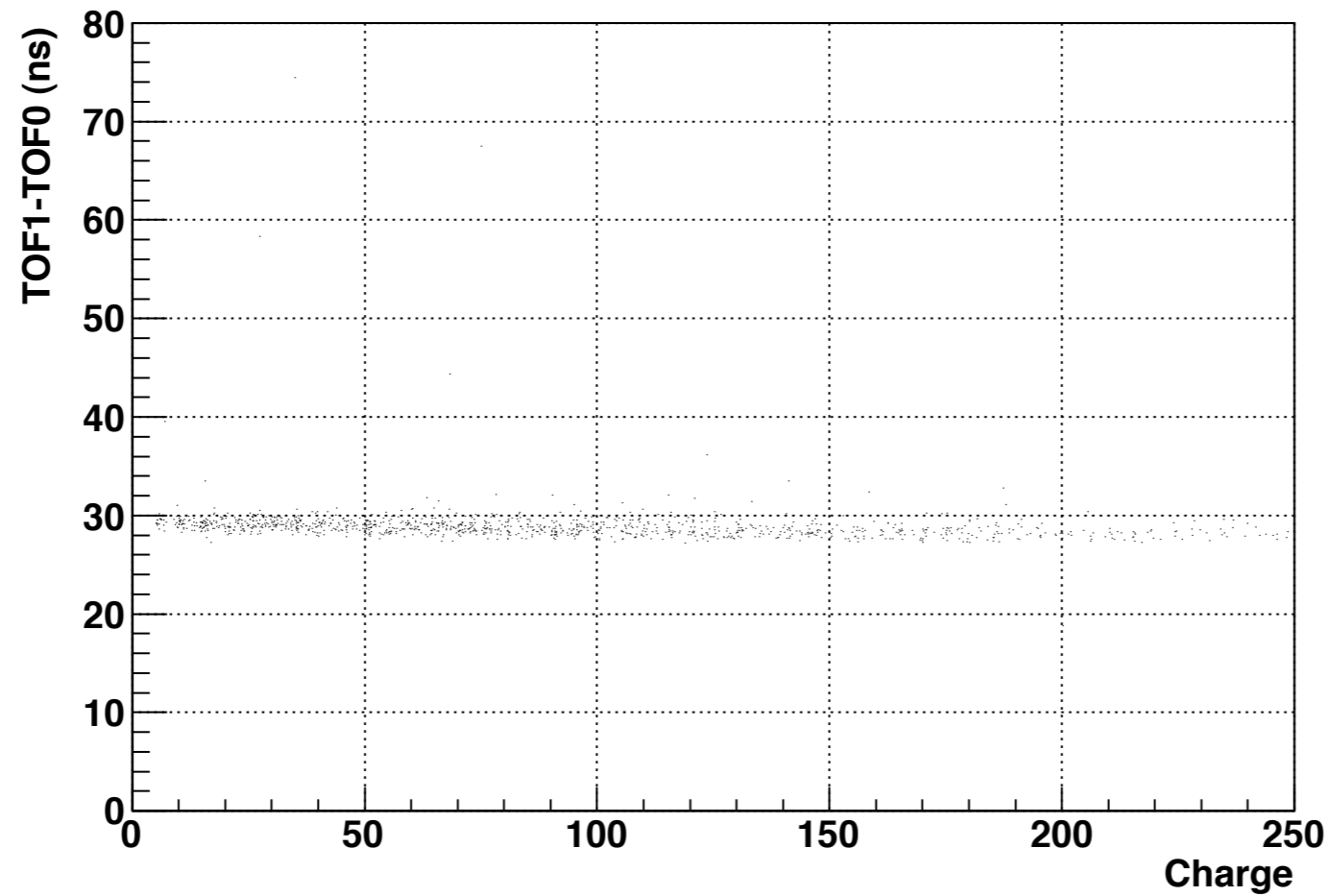


Charge in PMT I (Ckov B)



- Only the largest fADC signals are represented (multiplicities are ignored)
- Pedestal events (events without peaks) appear before the first bump
- The value of the single electron bump will be used to convert charge to number of photo-electrons

Charge vs. TOF1-TOF0



- December runs are not yet analyzable with the latest version of MAUS
- However, this plot shows the charge and time of flight of run 02871 containing only muons.

Things to Do...

- Peak finding methods still need to be improved (finding secondary peaks; comparing the current method with a “fixed window” method)
- December run analysis should be ready by CM32