

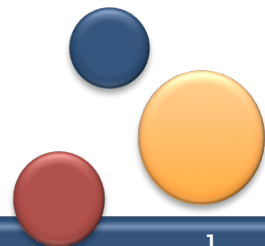
Ti Boiling Target Status

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Motivation:

Perform Ti boiling target study, and
prepare for Ar boiling study during
 $\text{Ar}(e, e'p)$ experiment.



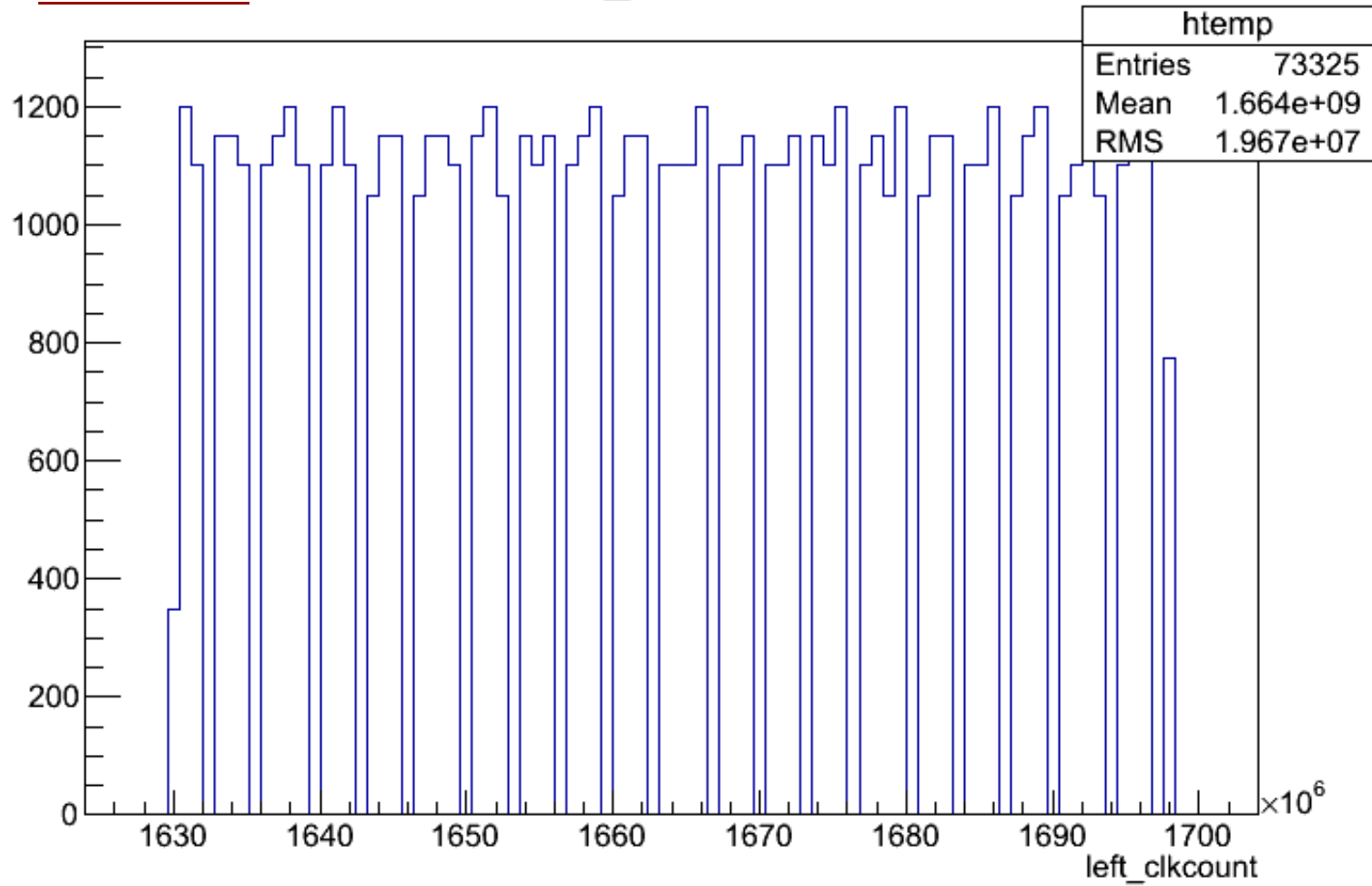
Some issues:

- Left Clock output:
 1. does not reset to zero at the beginning of the run.
 2. Negative time at some runs due to disk saturation (maybe?).
- BCM's response to low currents ($<4\mu\text{A}$).
- BCM's are not giving same normalized yield (DB?)



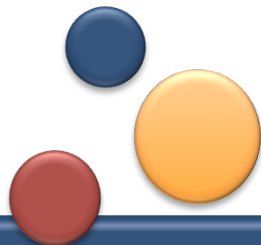
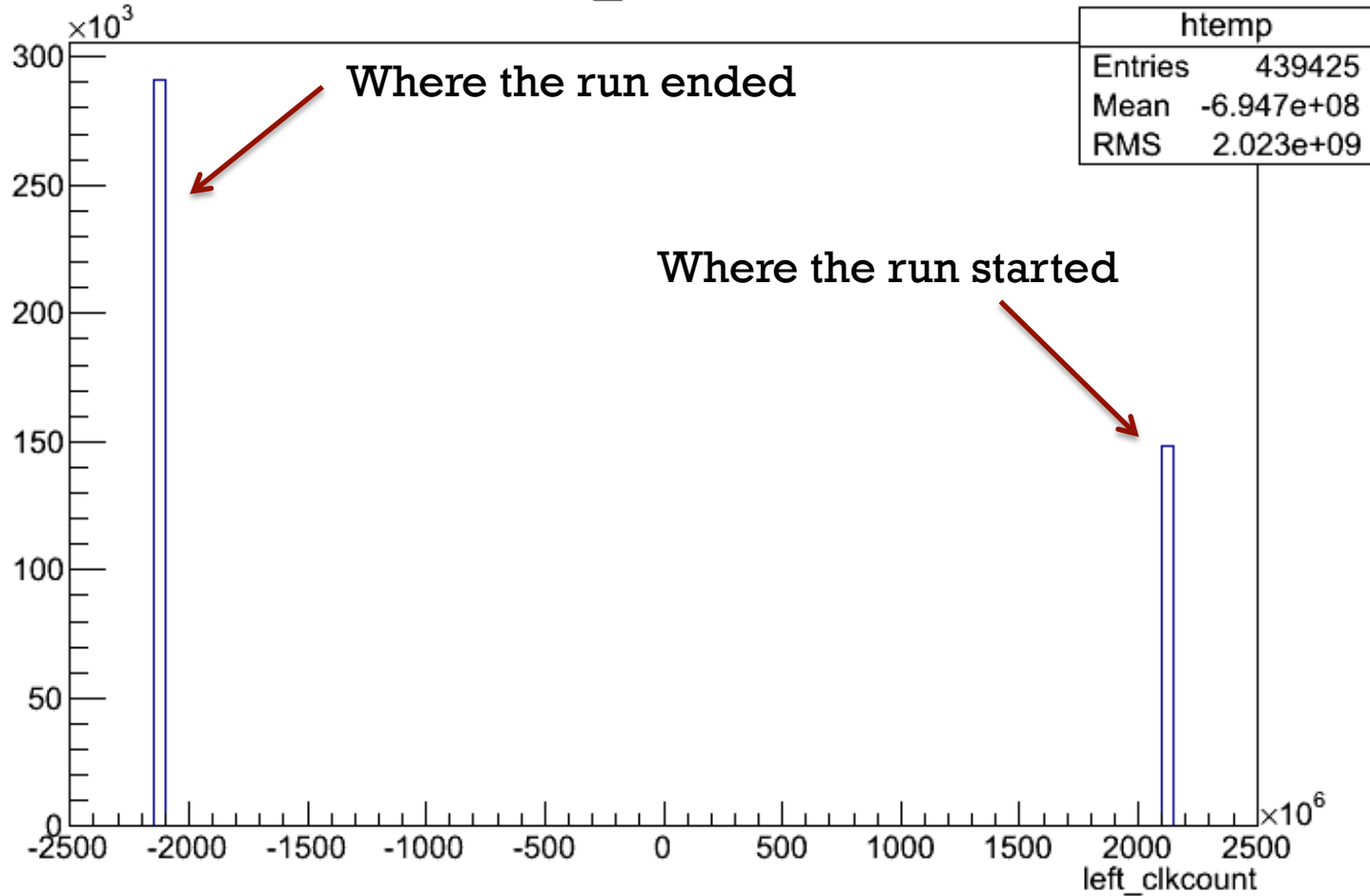
Run # 475

left_clkcount



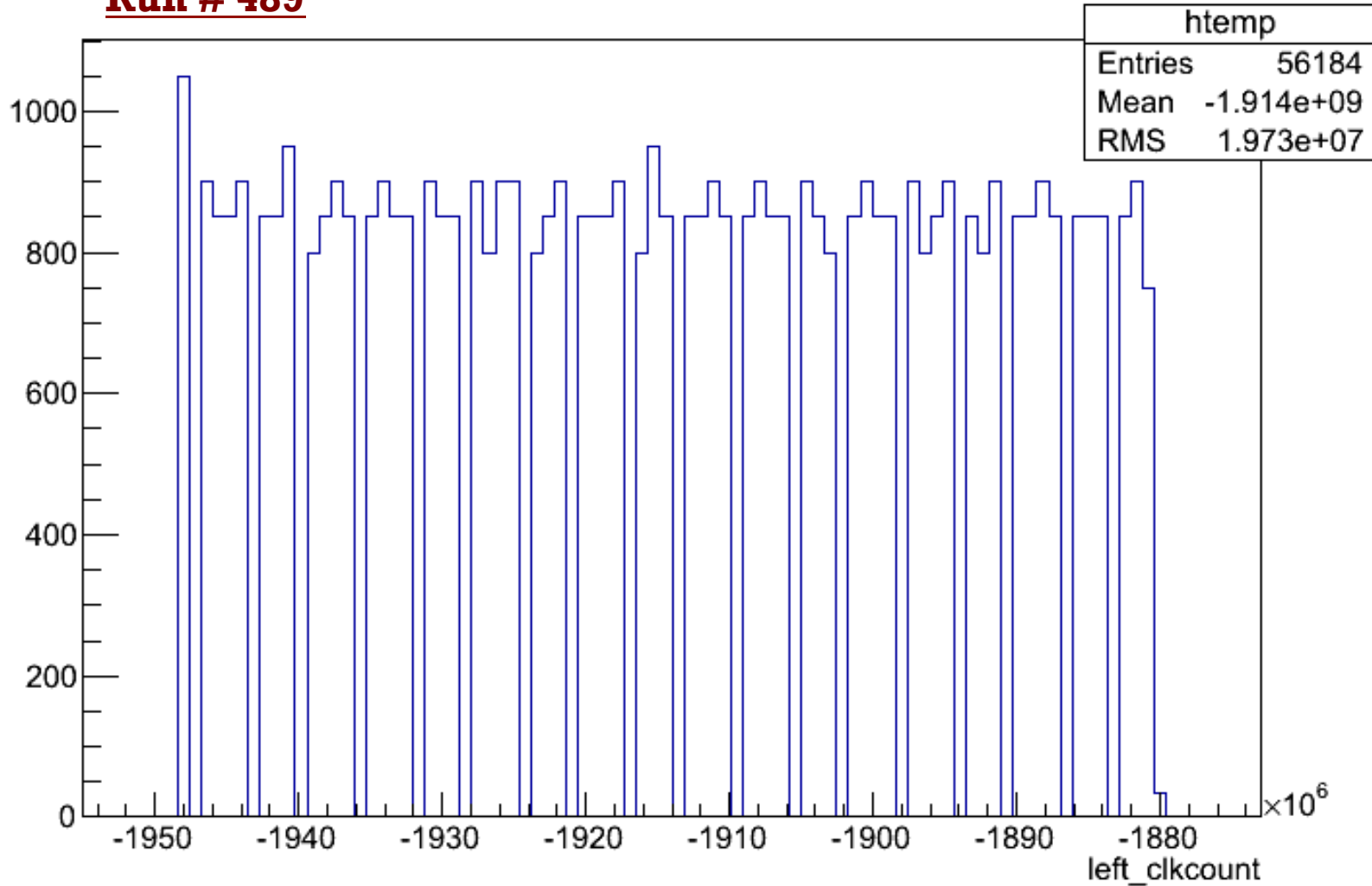
Run # 485

left_clkcount

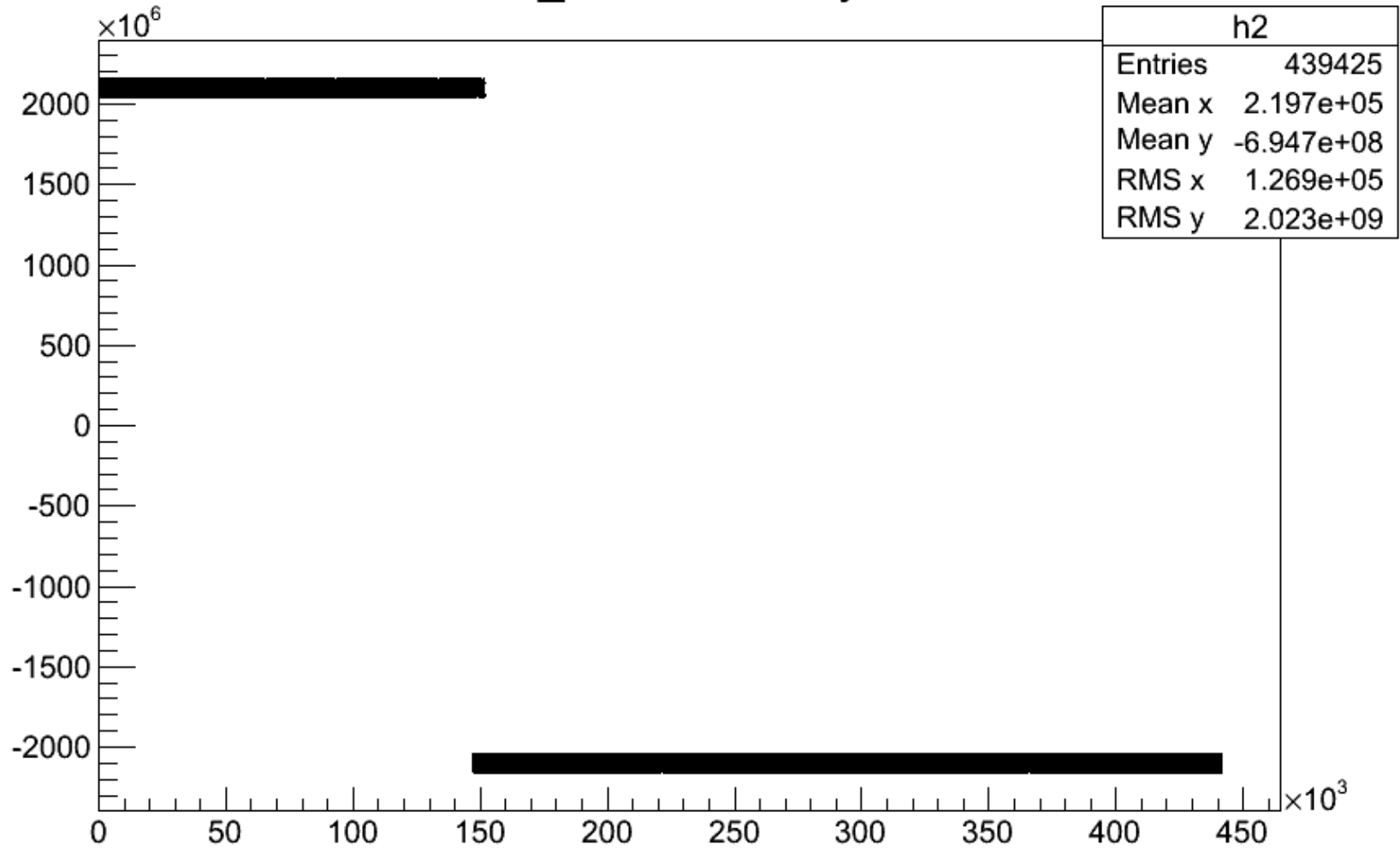


Run # 489

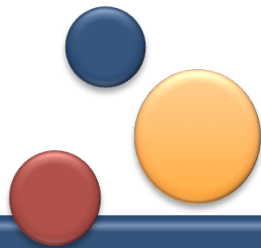
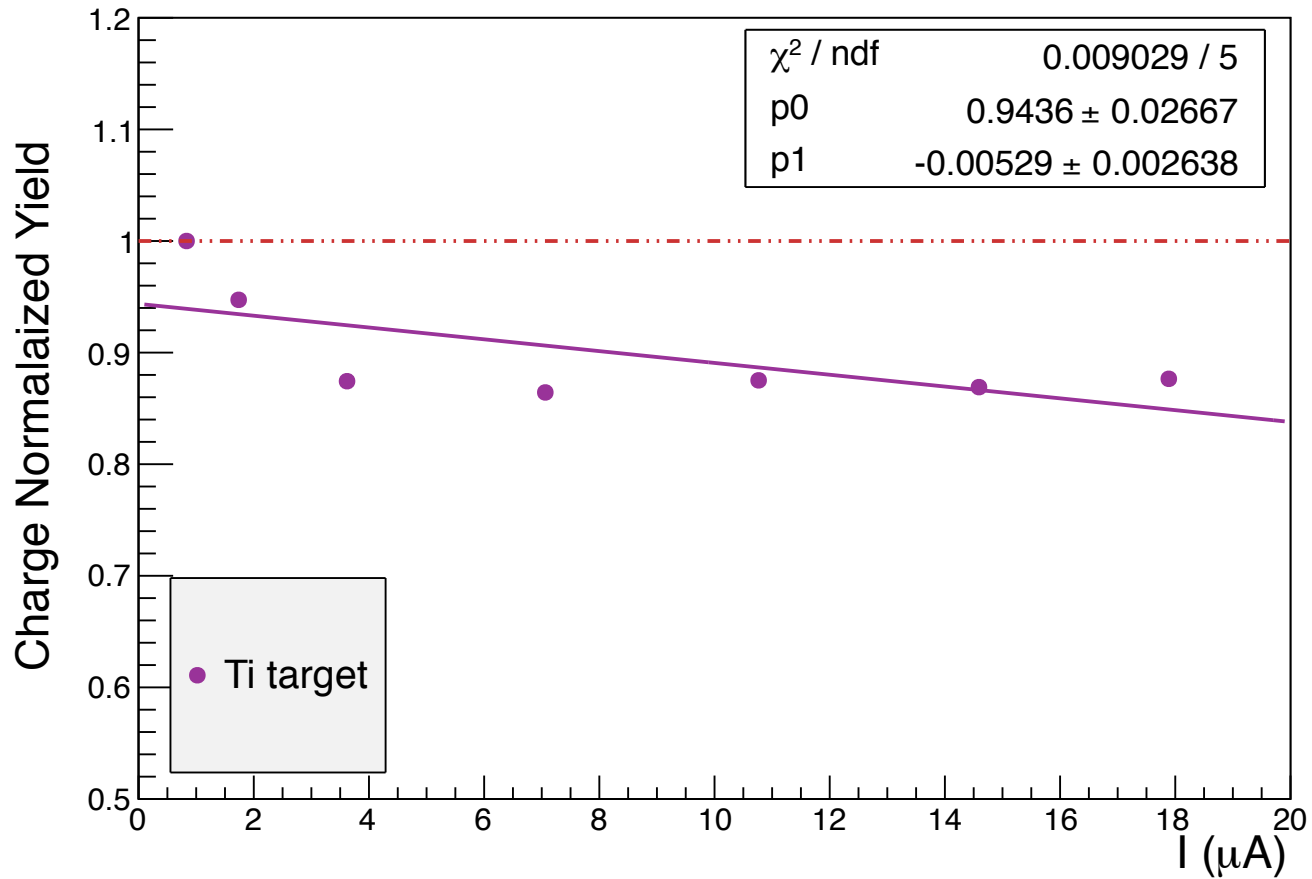
left_clkcount

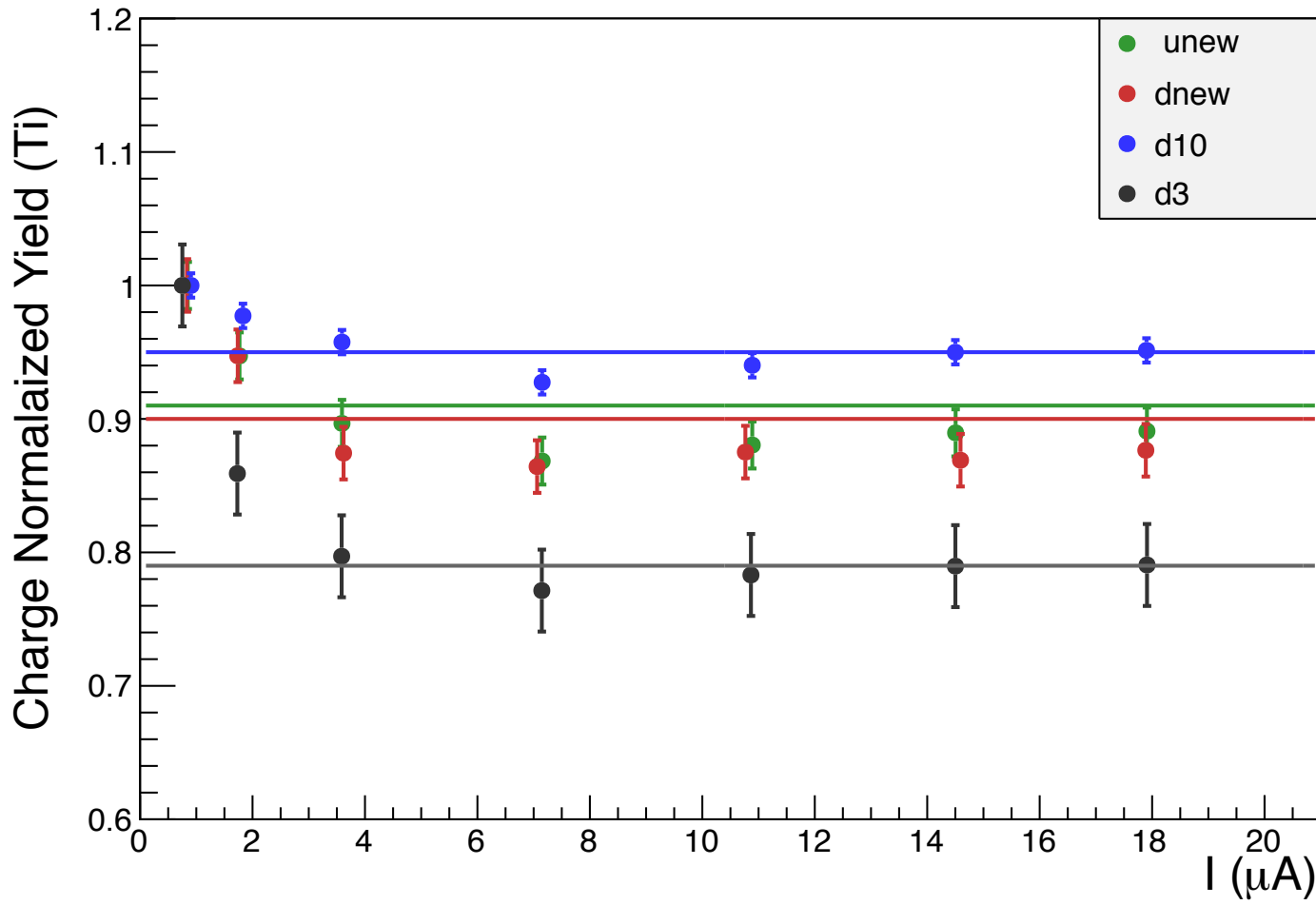


left_clkcount:Entry\$

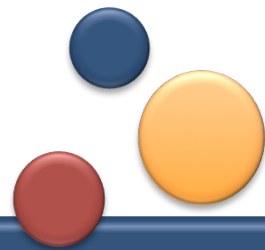
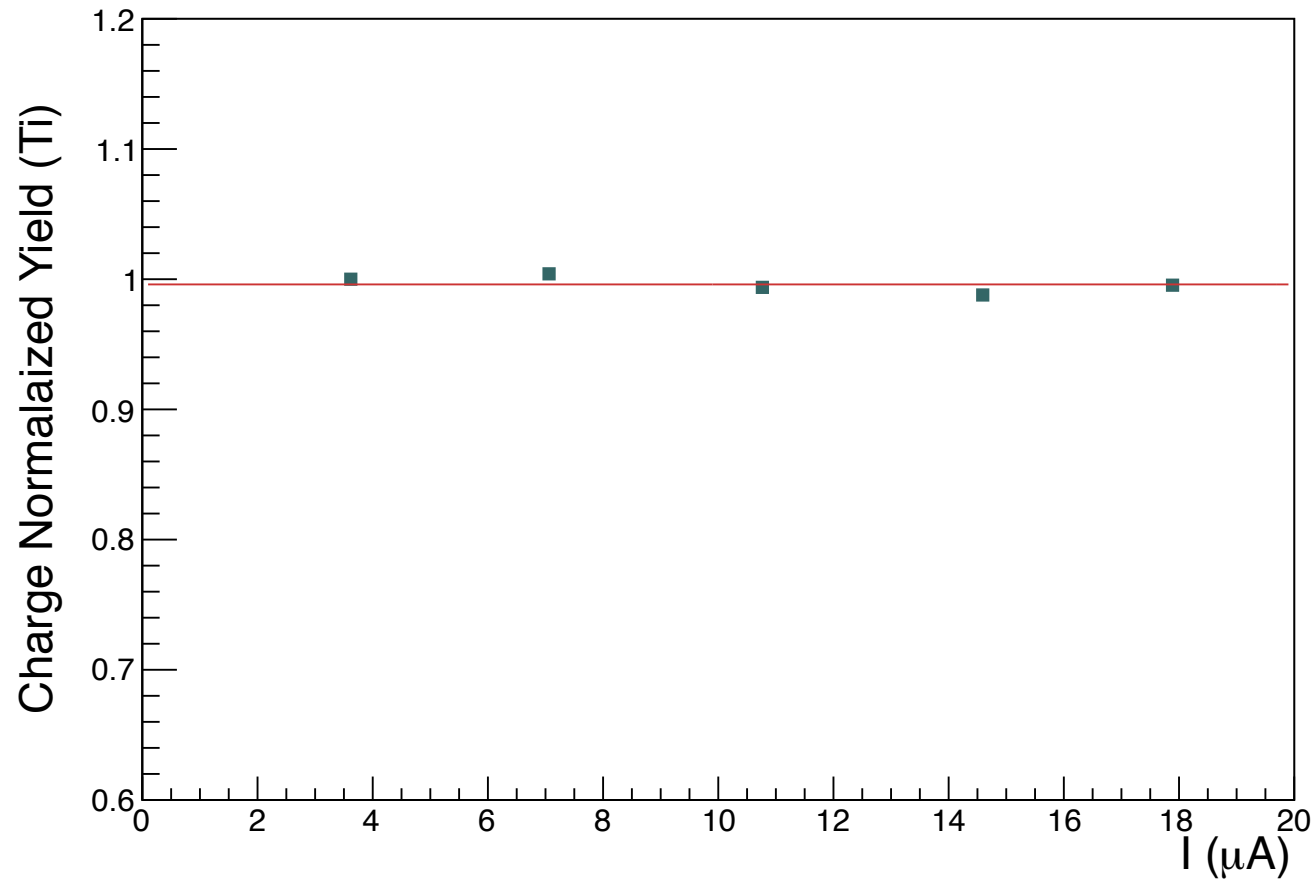


BCM: dnew

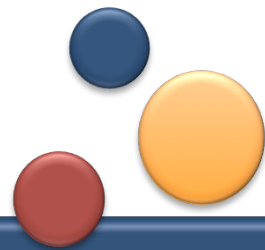
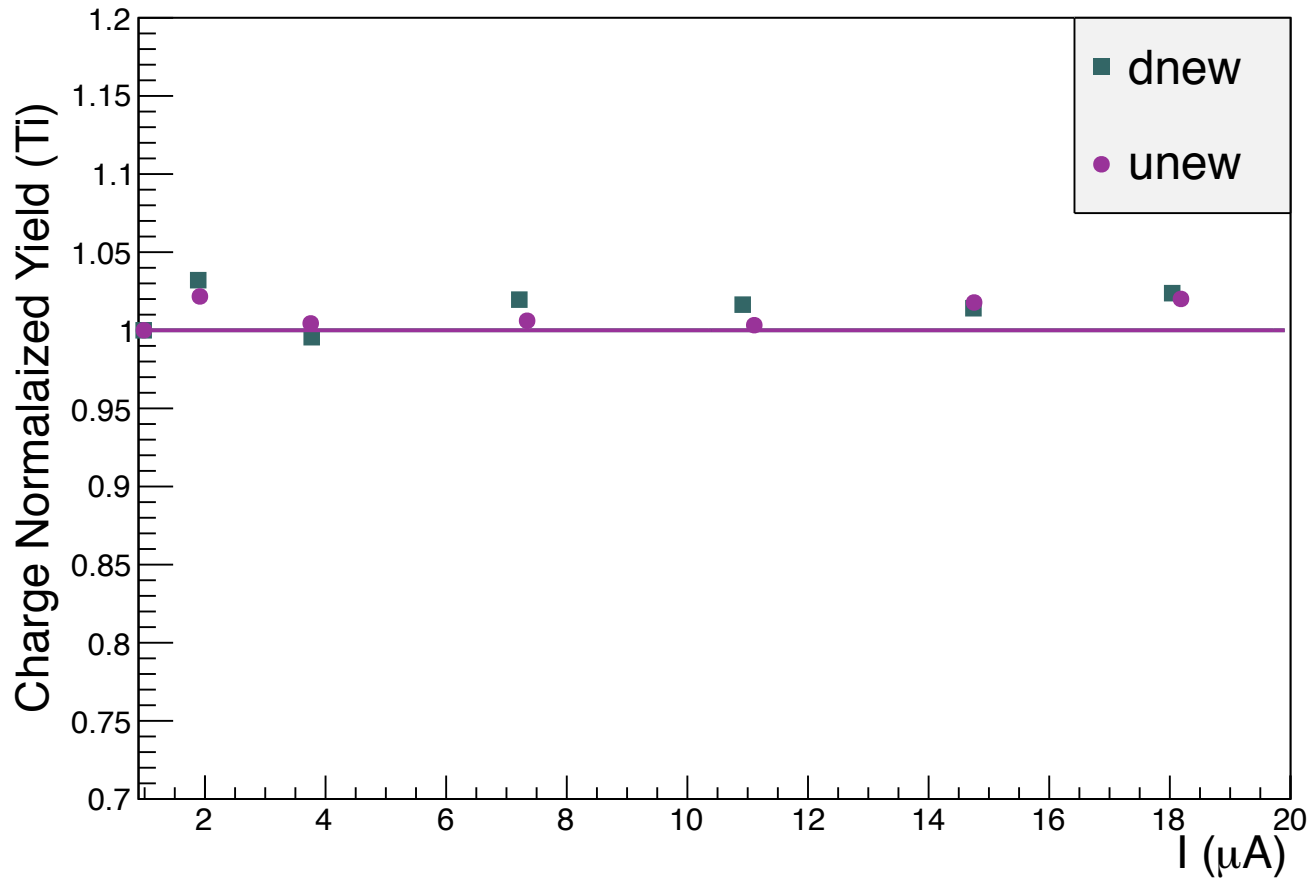


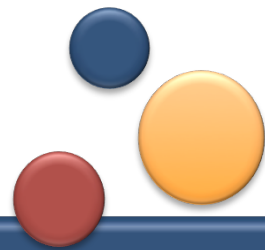
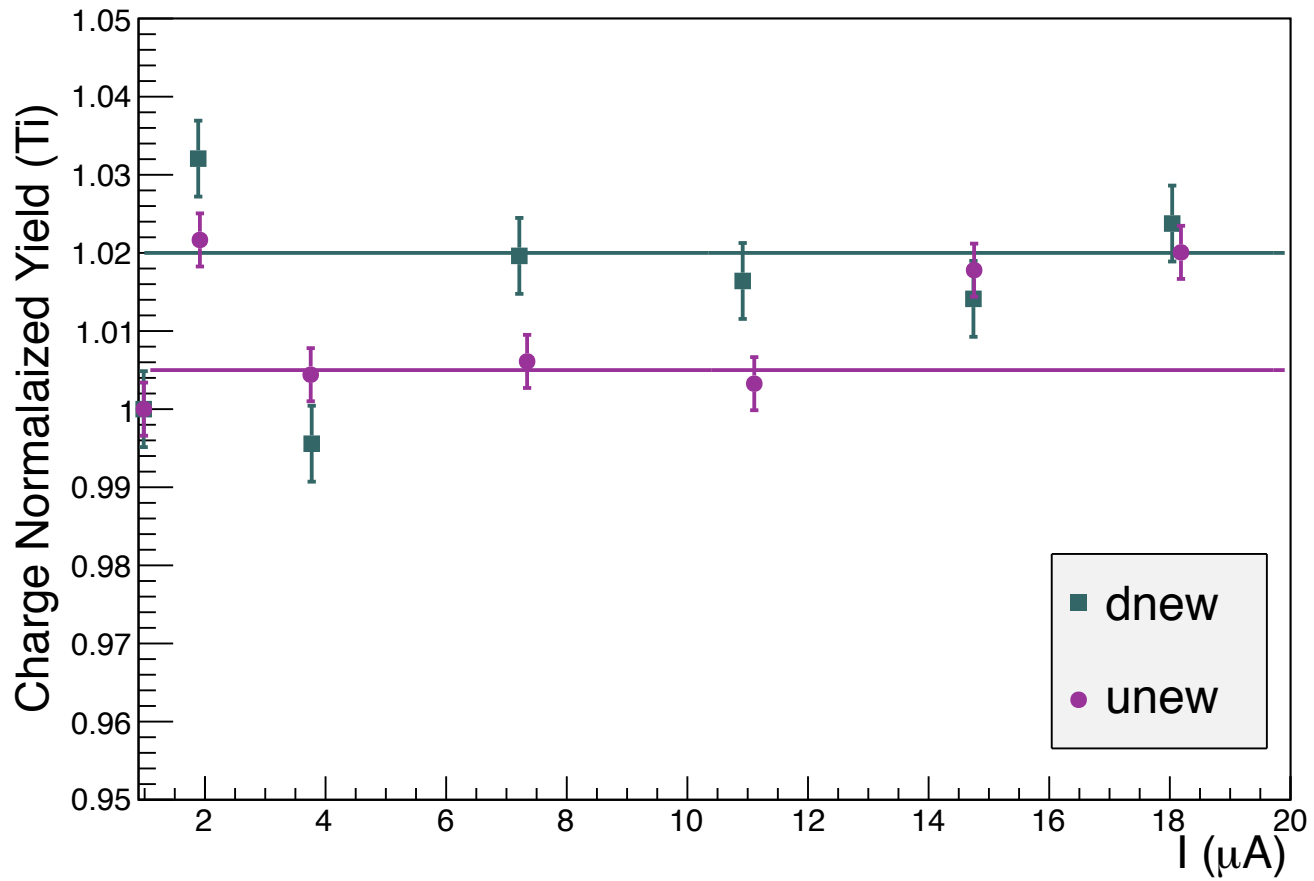


Normalizing over 4 μA yield and ignoring the lower current points:



After taking the BCM offset at low currents into account and adjusting the BCM constants:





Things need to be done:

- Analyze new boiling study runs (today) using finer bin in high current region for both Ar, Ti.
- Check offsets and uncertainties .
- Check Charge yield for different BCM's (how different from each other)
- Check the DB and make sure the BCM's are updated.

