

IC-22 analysis

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Summary of data check

- > data looks fine
- > data agree well with MC

Visit

http://www.ppl.phys.chiba-u.jp/research/lceCube/EHE/analysis/ 22strings/DataCheckEvent/index.html

or/and

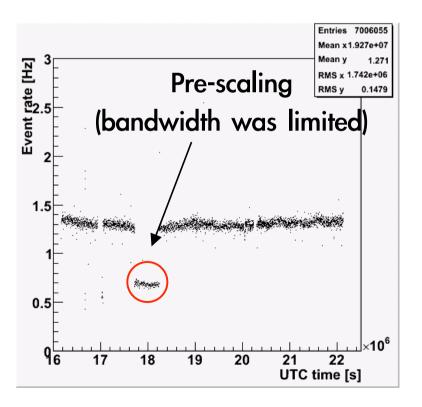
http://www.ppl.phys.chiba-u.jp/research/IceCube/EHE/analysis/

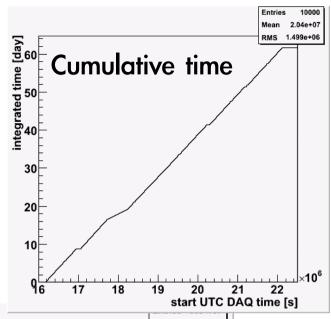
22strings/DataCheckChannel/index.html

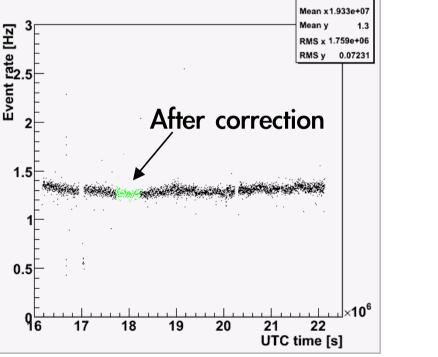
for more detail

data used for this check

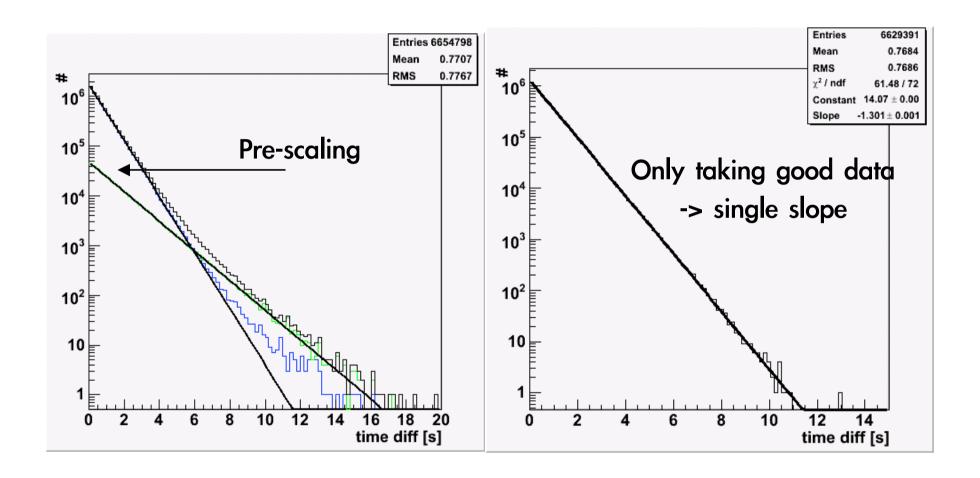
- > DOM# > 80
- ➤ July 7th Sept. 13th (effectively ~62 days)
- possible signal region (log10(total Npe)>5) is blinded.



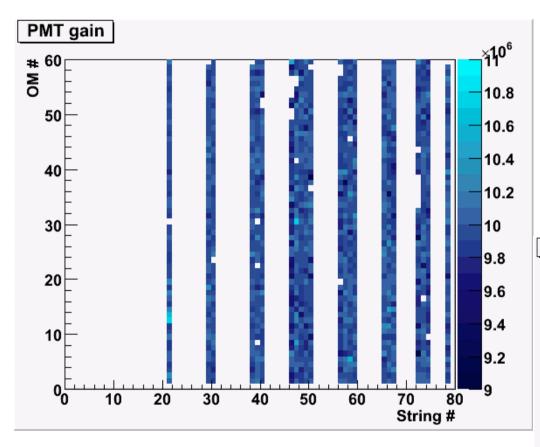




☐ Time difference

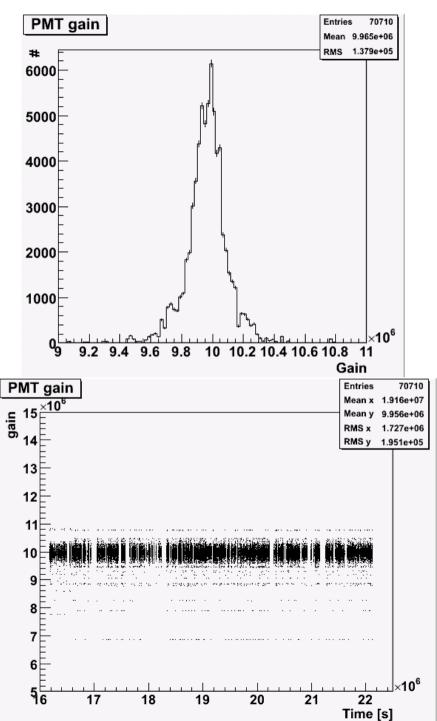


☐ PMT gain stability



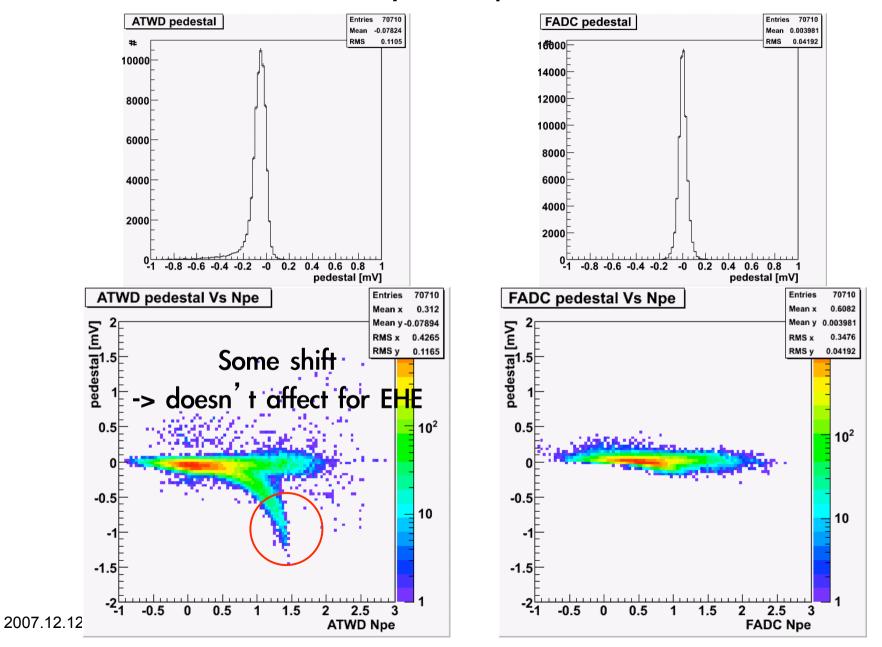
Very stable!

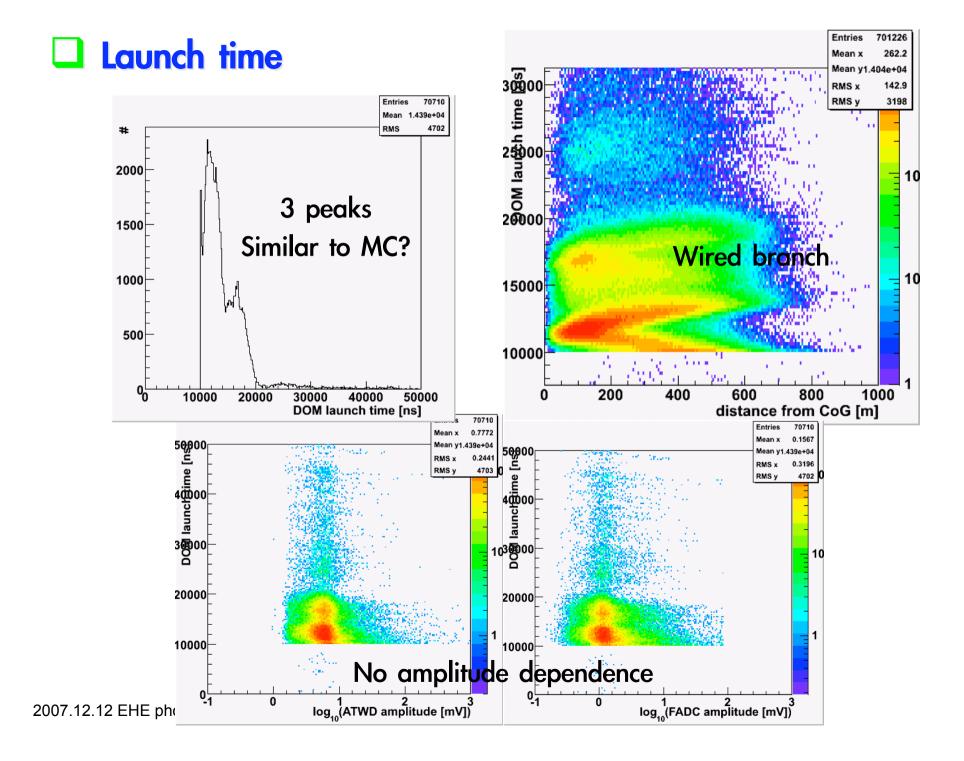
2007.12.12 EHE phone conf.



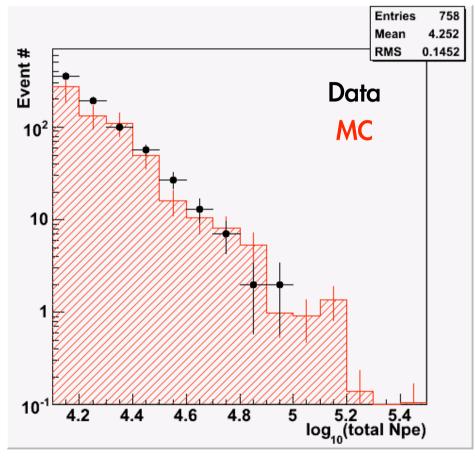


Very small spread



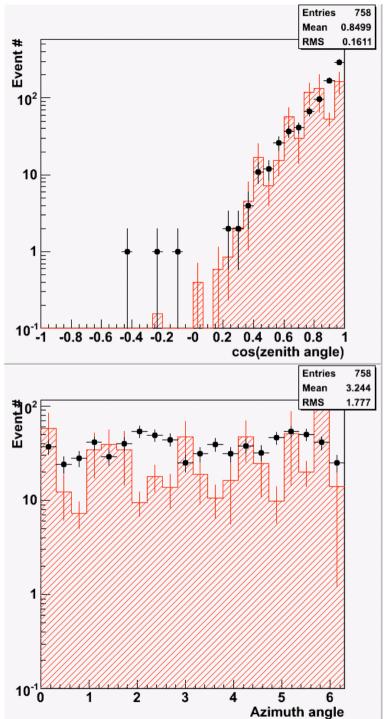


☐ Comparison between MC and observational data

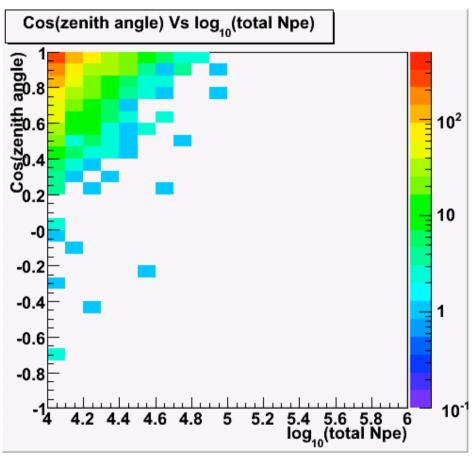


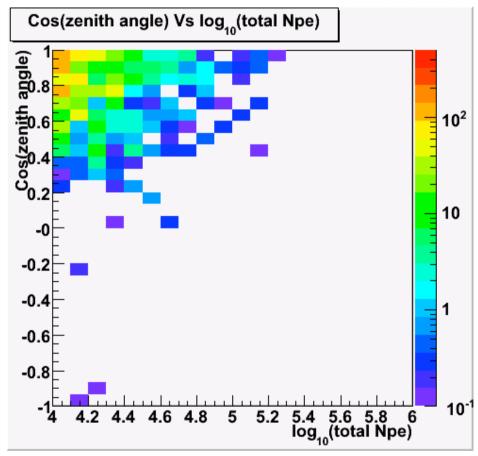
Agrees well!

MC: based on last year's data 2007.12.12 EHE phone conf.



Comparison between MC and observational data





☐ The plan

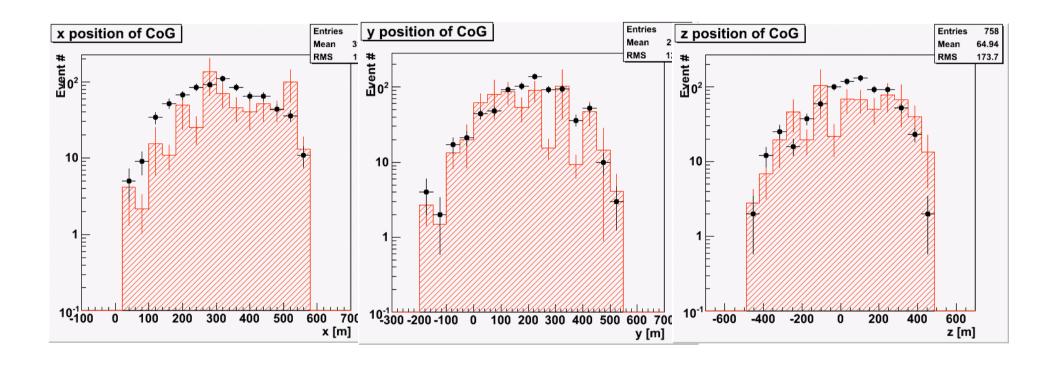
- > Target: unblinding request at beginning of March
- > Three main things to be done
- (1) Juliet MC generation (AHA layered table)
- (2) Corsika MC generation for the fluctuation estimation
- (3) Reconstruction (Aya's super cut, WF reco, hyper reco?)
- > (1),(2) has to get started soon! (a bit delayed, although it will finish with a bit more work, hopefully. A new EHE meta-project based on simV2 is coming!)
- Many things to do. Volunteers?

u to do list

- (1) analysis
 - > Waveform check (Launch time, too)
 - > Potentially good run list? (only 14%: according to Carsten)
 - base-line study (for the improvement)
- (2) Juliet MC generation
 - > establish the chain (almost done)
 - > droop effect?
 - > Sanity check (catch bugs)
- (3) Corsika generation
 - > a bug in SYBILL?
 - > low energy threshold
 - establish the chain (almost done)
 - > Sanity check
- (4) Reconstruction
- (AHA lightsaber tables?)

Back up

Comparison between MC and observational data



☐ Launch time (2nd launch)

