Charge asymmetry
for left arm's production run(w/o problems)

Ryan's mysql database definition

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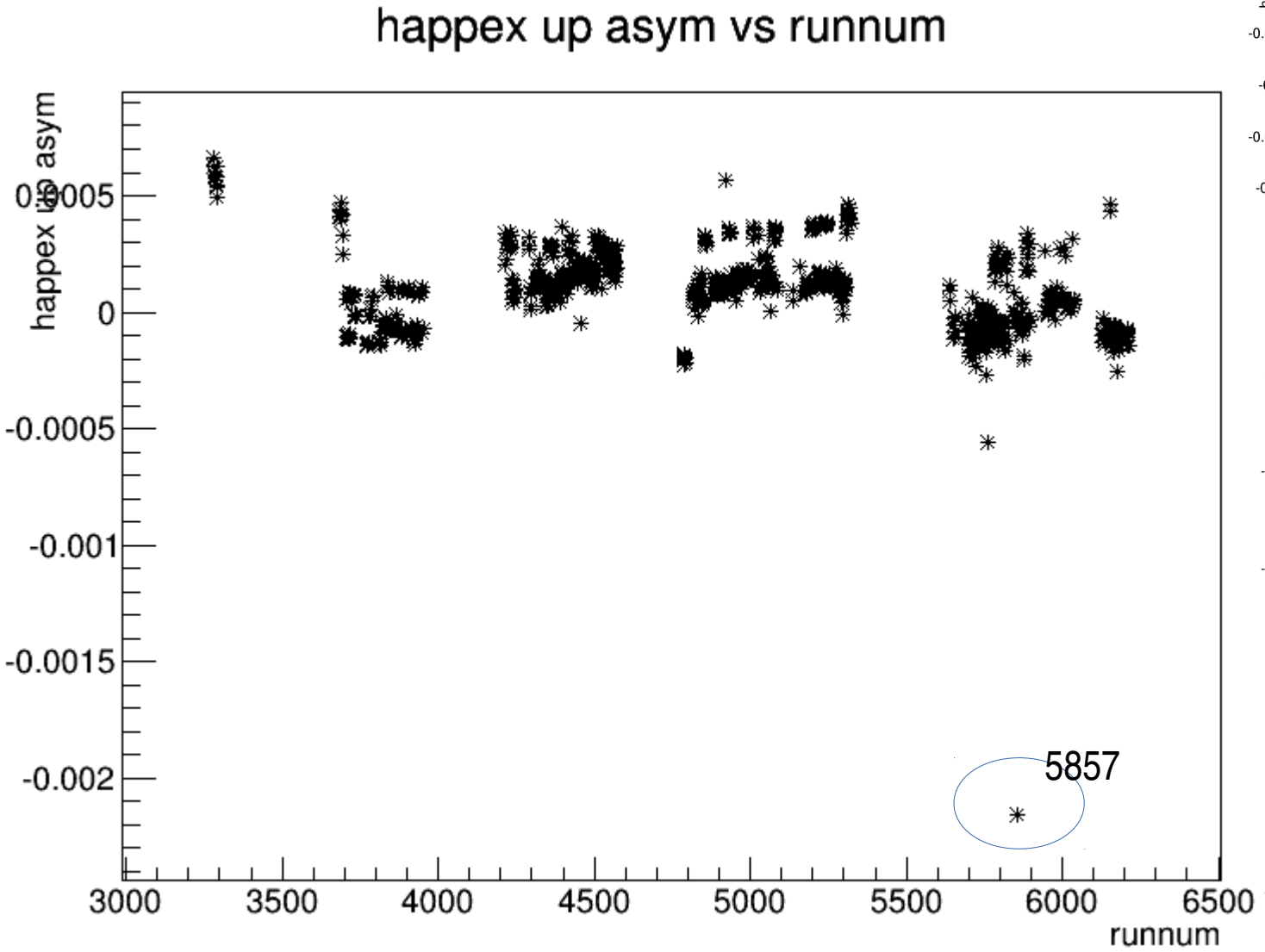
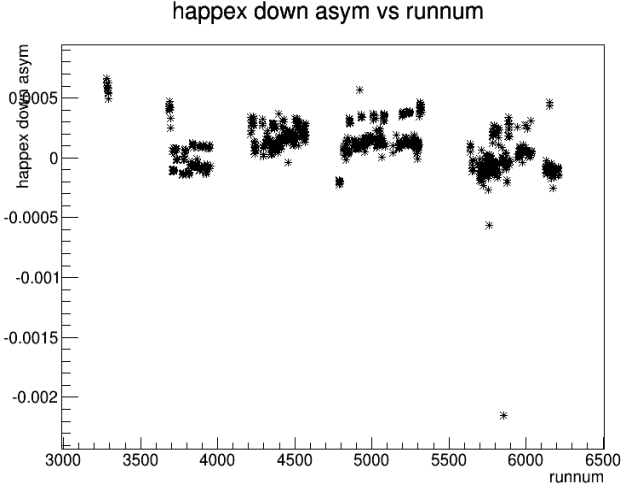
two ways for check:
1. use Chao's helicity decoder
2. use my own's decoder for double check

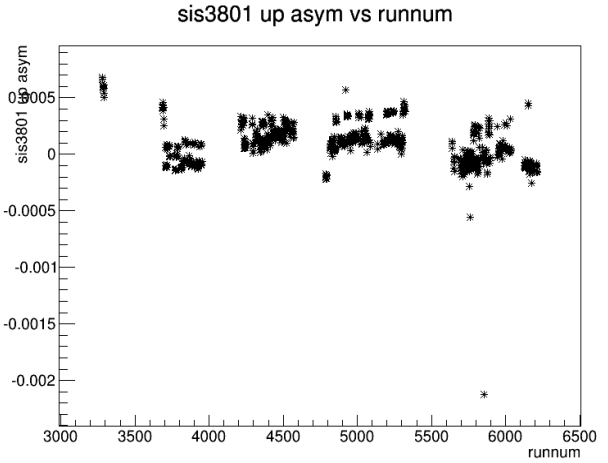
Four devices:
1. sis3801 scaler upstream bcm
2. sis3801 scaler downstream bcm
3. happex upstream bcm
4. happex downstream bcm

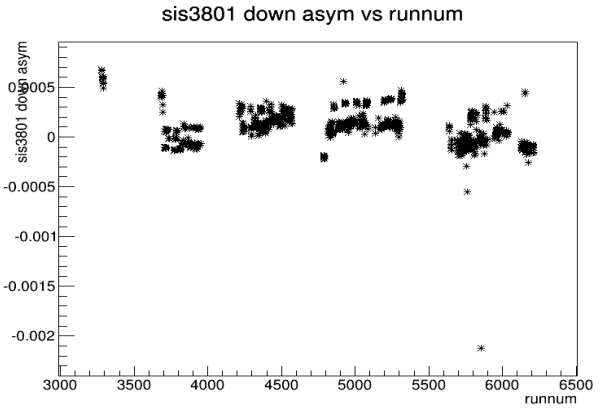
Effecttiveness check:
Use helicity signal saved in scaler chanel for sis3801 and adc channel for happex, set no delay, check if the signal has 100% asymmetry.

Using Chao's helicity decoder:

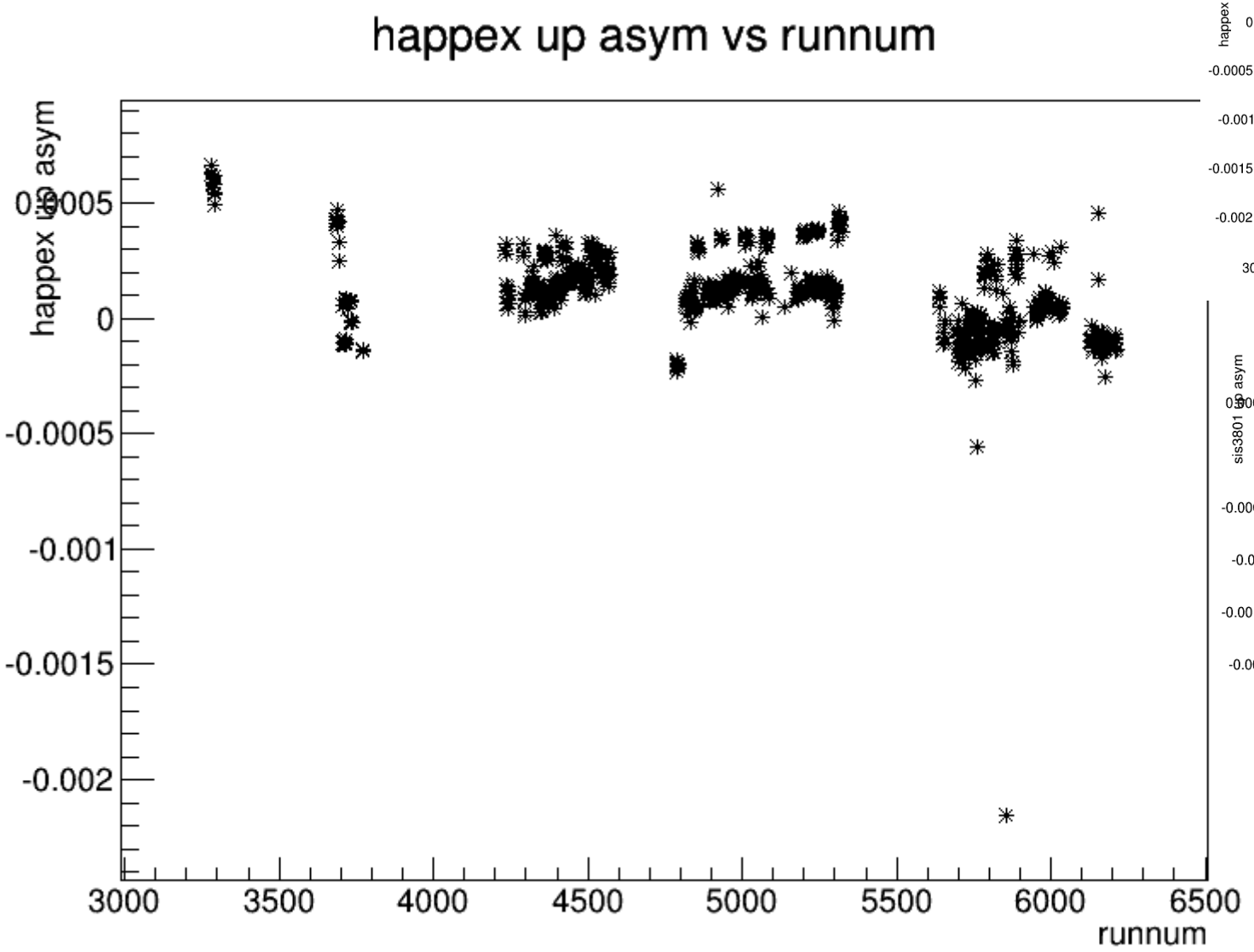


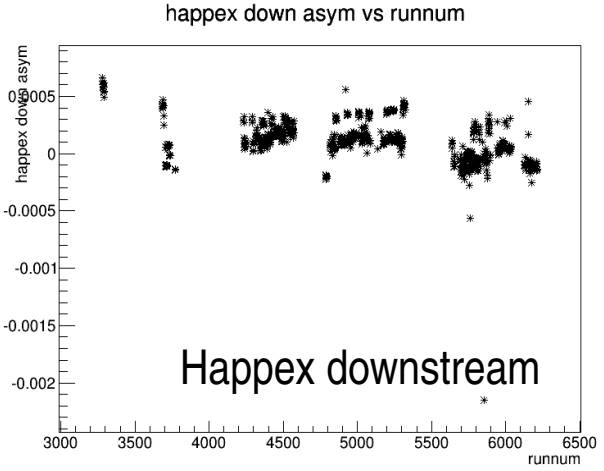


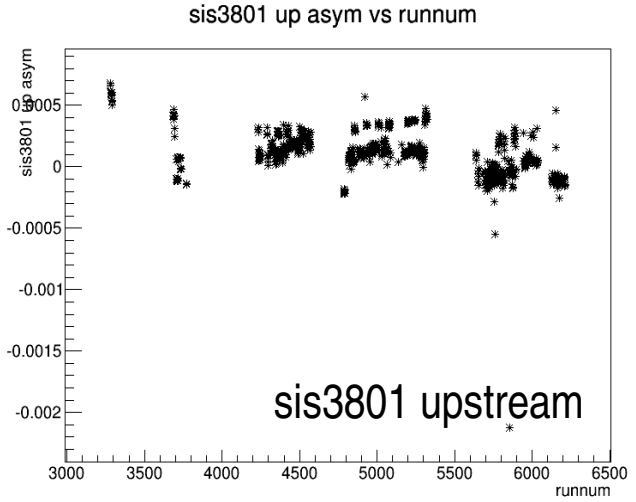


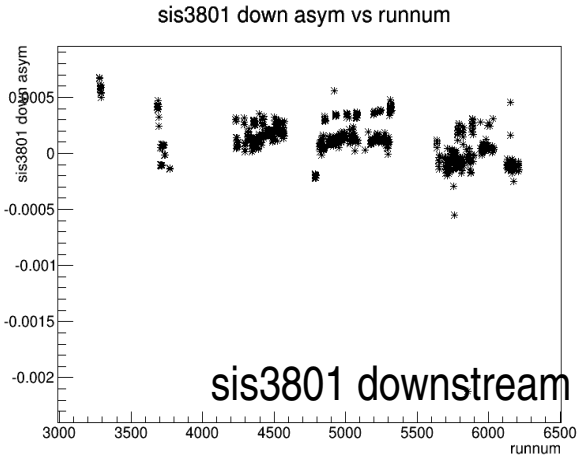


Using my own's helicity decoder for double check:









helicity decoder double check: Done

More asymmetry result: coming soon
(right arm, production run w/ problem)