

Things to be done, further improvements,
problems to be fixed for PrimEx-II run
(from Ashot, Dan, Dustin, Eugene, Mark, Ilya, etc)

- Manpower
- HyCal
- Trigger
- Target
- Veto
- Permanent magnet and beam pipe
- Slow control
- Run organization
- On line
- LMS

Manpower

- Need more people

HyCal

- Add leakage detector ?
- Cable delay equalizing for all channels
- List of problem channels to be fixed
- ROC-4
- More TDC ?
- Pedestal monitoring improvement, store into events unsparsified information

Trigger

- HyCal only instead of Coincidence
- Include information from other T-counters (#12- #20?)
- Revise pre-scale factor values (more clock triggers, etc)

Target

- Increase Target thickness (use of $\sim 20\% X_0$ target)
- Si-28 Target ?
- Thin target for Compton and e^+e^- ?

Run organization

- Better commissioning planning
- Frequent periodic run type change
(π^0 -tgt1/ π^0 -tgt2/Compton/e+e-/TAC)
- Increase TAC run statistics
- Better performance of PrimEx online DB (prevent information losses)
- TAC On during the snake
- Decrease target to HyCal distance

On-line

- Alarms for subsystems
- Quick establishing of golden beam parameters
- Online monitoring software for PS and other subsystems
- Better Live time 1/2 control
- Software improvement for snake scan

Slow control

- add pressure monitors
- BPM 2c21 2c24 survey and dipole between them
- Improved use of booster

Veto

- No gaps
- Better electronic conditions
- Add horizontal planes

LMS

- Better magnetic field condition for reference PMT
- More light (~ 10 times) in pulses
- Better trigger
- Use of only one filtering wheel position
- Fix dead channels
- Add TAC LMS

Permanent magnet and beam pipe

- Increase permanent magnet field ?
- Bigger beam pipe at tagger box