

E-by-E

EbyE is a very dull PWG trigger-wise --- we just like to sit there and spend nearly all the time on minbias. Whatever central trigger the other guys want is OK with us; we need less of it than they do.

Mikhail Kopytine will be present at the meeting, and can answer any particular questions directed to EbyE that might arise (as he did last year). We were happy with last year's outcome, so let's do the same thing again.

Strangeness

just a note to let you know that there are no special trigger needs for the strangeness group. We're happy with the standard central and minbias triggers. Regarding the SVT we have agreed to change the requirement that the calibration trigger has to be 'intersperseable' but we still would like to have a possibility to fire our injection lines in a special calibration run, let's say a 100 events after every new fill. I think that is possible with the present scheme.

High Pt

High pT will require minimum bias, high tower, FPD, and zero bias triggers during the upcoming 200 GeV AuAu run. If we also run 63 GeV, for that period we will need minimum bias, FPD, and zero bias triggers only.

For minimum bias, the primary triggers that we will require are:

- ZDCE*ZDCW coincidence with a TAC cut for z_vertex limitation
- BBCE*BBCW coincidence with a TAC cut for z_vertex limitation

we will also need a highly prescaled sample (1 Hz should suffice) with a loose collision trigger. Probably the easiest would be:

- ZDCE*ZDCW loose collision trigger, without any CTB constraint.

For high towers, we anticipate needing:

- BEMC high tower trigger with (at least) two independent thresholds
- EEMC high tower trigger with (at least) two independent thresholds

The bulk of the data can be recorded via DAQ100

For FPD triggers, the existing FPD DSM trigger logic will suffice

For zero bias, possible triggers are:

- Highly prescaled version of the revtick signal.
- A slow pulser
- Something else that fits into the trigger hardware more easily

Note that the High pT group has no specific request for central AuAu events during the upcoming run.

strangelets

Uses new SMD on ZDCs to locate shower(s)

Signal of strangelet is ZDC>big, CTB>big

Can we trigger at L0? Need another ZDC bit

Scalers

What do we want for AuAu?

dead-time for each detector group

pp

vertex info?

faster readout

ping-pong vs. integrating and sampling

trgStructures.h

Additional detector information

Level2 Data Writes

Selected trigger detector data?

Speed?