

STAR Status Report

- Trigger commissioning work from about 12:30 am until about 8:20 am this morning
- Worked on studying coincidences, of various Trigger Counters. For most of the night progress hindered because TACs for the ZDCs were not working, so could not measure the relative timing of ZDC hits, adjust, and put cuts on it to select collisions.
- Performed a number of timing scans, adjusted various thresholds, and maximized a trigger conditions rate. Looking at the ADC spectra for the ZDCs however gave slightly ambiguous results.
- Early in the morning expert for BBC came in Les turned on the BBC, and looked at the BBC hits and TACs. Saw convincing evidence that we were triggering on collisions, although with unknown absolute timing.
- Took a time scan for the BBC which, once we establish and correctly adjust the ZDC timing, should allow us to understand the necessary timing adjustments necessary so that we can trigger on both/either the BBC and the ZDC.

- With the 8:30 access the STAR magnet barriers were quickly installed. People went in to power up the EEMC electronics, and to work on the ZDC TACS. Believe the problem is fixed and will check it out tonight when we hope to do further trigger commissioning. Able to diagnose, and we believe fix, the ZDC TAC problem, so hopefully things will go much better tonight with the Trigger commissioning.
- Called out the CAS Watch to unlock the Magnet Power Supplies they recalled that, with the new Soft Start gear installed by C-AD, that they need to change their procedure for preparing the magnet to come on. They are currently working on this, and the hope is to get the magnet on shortly after lunch. Magnet is being watched during the day; need to know if coverage is needed for the swing shift.
- Hope is for C-AD to check the effect of the STAR magnet on the beam, that it will be negligible, and that we can then can turn it on and off at our convenience. It would start 24 hour operation next week.
- Alternative would be 24 hour coverage which we can do, but might not be the best use of resources.