

Minutes 2011/10/07

Present: Spiros, Jonathan, Gang, Flemming, Mustafa, Jim [Xin excused]

1. HFT Geometry update
 - a. Jason build in .dev a 'blank' Y2013 geometry file; to be modified with realistic structures. A snapshot of it is here (with outdated UPGR13 PXLs): <http://drupal.star.bnl.gov/STAR/event/2011/10/07/hft-software/geometry-dev13>
 - b. Flemming is helping with beam-pipe follow up
 - c. Action Items:**
 - i. What exactly is going to be installed in Run-13?**
 1. Support structures (WSC, OSC etc?)
 - ii. We need a way to find Thicknesses/Lentgths from eDrawings. Jim/Flemming to help with it.**
2. Physics of the Prototype
 - a. Some older and new calculations from Jonathan and Xin are posted here: <http://drupal.star.bnl.gov/STAR/event/2011/10/07/hft-software/geometry-update> . The agreement is good. Couple of configurations look promising.
 - b. Action Items:**
 - i. Jonathan- Lower pt cut from 0.8 GeV
 - ii. Using existing productions (mask out SSD, IST, inactive PXL sectors) calculate tracking efficiency and ghosting. Note: this is not optimal since the SSD/IST material is still there.
 - iii. Start optimization work by using e.g. event vertex info, momentum info, pxl cluster info (need slow simulator) etc.
3. Slow Simulator
 - a. Draft an initial implementation plan for Auguste (Spiros/Mustafa et al) in order to
 - i. Aquire the DIGIMAPS code fixed with our ultimate chip parameters.
 - ii. Clarify plan on how to use the CERN beam test data to fine tune them
 - iii. Begin small track number slow simulations
 - iv. Parameterize behavior for fast simulator in the chain.