**Minutes 2011/10/07**

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

1. HFT Geometry update
   1. 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 A snapshot of it is here (with outdated UPGR13 PXLs): 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>
   2. Flemming is helping with beam-pipe follow up
   3. **Action Items:**
      1. **What exactly is going to be installed in Run-13?**
         1. Support structures (WSC, OSC etc?)
      2. **We need a way to find Thicknesses/Lentgths from eDrawings. Jim/Flemming to help with it.**
2. Physics of the Prototype
   1. 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.
   2. **Action Items:**
      1. Jonathan- Lower pt cut from 0.8 GeV
      2. 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.
      3. Start optimization work by using e.g. event vertex info, momentum info, pxl cluster info (need slow simulator) etc.
3. Slow Simulator
   1. Draft an initial implementation plan for Auguste (Spiros/Mustafa et al) in order to
      1. Aquire the DIGIMAPS code fixed with our ultimate chip parameters.
      2. Clarify plan on how to use the CERN beam test data to fine tune them
      3. Begin small track number slow simulations
      4. Parameterize behavior for fast simulator in the chain.