

## Minutes 2012/9/07

Present: Spiros, Jonathan, Xin, Mustafa, Yaping, Hans-Georg, Hao, Amilkar

Exused: Flemming

### 1. Survey-PXL

- a. Hao presented an update to prototype sector survey
- b. The FULL ladder (all 10 sensors) is now programmed to be probed by the vision and touch probe. There are differences between vision/touch probe up to 40 microns. He will investigate if pressure of touch probe is responsible.
- c. He presented measurements on repeatability of rotary mechanism. Solutions exist to correct for axis wobbling.
- d. Sensor fiducial work will be done manually

### 2. IST Slow Simulator

- a. Yaping showed some slides with his work on splitting the PXL and IST fast simulators. Results are identical with old combined simulator.
- b. He realized that the Gaussian smearing of the Geant hit with certain resolution makes hits leak outside the active sensor areas. More proper way would be to assign hits at the center of the pad. This is correct only for those hits that are completely contained in one pad. Hits that give signals to more than one pad need other treatment (we discussed it a bit).
- c. UIC is going to work on a better version of geometry (more detailed) for IST next.
- d. Jonathan brought up the need to have something for PXL too. Spiros will contact Auguste again.

### 3. Geometry/Chain for Alignment studies - DEV14

- a. Jonathan presented some slides on his work with the geometry and the reco-chain for the Alignment studies.
- b. He started producing minbias AuAu events for tests. Trying to do tracking with an SSD sector shifted by 5cm failed (good)!

### 4. Alignment

- a. I showed some slides on Alignment and proposed a procedure for HFT.
- b. I spent last week gathering the macros and testing the old SSD/SVT chain.
- c. Next step is to adapt the old chain, procedures and structures to HFT and document the steps in a similar way. By next Friday I will have a better estimate on exactly what is needed to do that.