WBS 1.6 Software

1) **Run-13 HFT goals**
   a) We prepared a short document with the software goals for the engineering PXL run (Run-13) where we presented the requirements in terms of beam rate conditions, trigger and run-time for a successful calibration of the detector.
2) **Alignment Software and Simulations**
   a) The source of some strange behavior in some of the alignment distributions was identified and fixed.
3) **Survey**
   a) The IST Survey requirement document was released containing detailed information on fiducial targets and other survey issues.
   b) PIXEL: more work on the survey offline interface and specs.
4) **Geometry modeling**
   a) A detailed document describing the IST geometry was released.
   b) A quick estimation of the impact of Cu cables in the outer PXL layer and Al cables in the inner one was performed. The impact on D0 reconstruction efficiency, as compared to the all-Al case, is estimated to be only a couple of percent.
5) **Offline Chain**
   a) We begin work in identifying the missing modules needed for offline reconstruction. Priority is given to PXL detector as it is the only one present in the upcoming run.
   b) We started the migration of software into the official STAR library. A full simulation chain was the first item to complete.
6) **AOB**
   a) First results from the analysis of IST cosmic data were presented. Performance of the detector as expected.
   b) The work on PXL fast/slow simulators has resumed. The fast pixel simulator has been cleaned up and completed to specs.