

WBS 1.6 Software

Pre-CD4 related work: This includes work on several areas relevant to CD4 documentation:

- Analyze AuAu data sample that included latest calibrations for DCA resolution
- Perform and analyze Simulations for both DCA and pion efficiency KPP plots
- Prepare and analyze the “embedding” of simulated tracks into real events for efficiency studies.
- Prepare performance figures and write the final report.

Run14 (Au+Au 200 GeV/c) Analysis: There are many ongoing activities:

- The detector modeling in the tracking is almost done
- Calibrations for run-by-run characterization for PXL were reorganized for optimal disk space usage.
- New HFT tracking efficiency work started based on K0s reconstruction
- The full SSD offline software is checked and updated for this year’s data analysis
- The IST calibration work for Run-14 is progressing
- Alignment: The processing of latest alignment zero field samples have been processed and under analysis now
- A document listing the remaining calibration tasks for Run14 analysis was prepared.

The survey of the new PXL copy is progressing well. All 10 new PXL sectors have been surveyed (three times). The repeatability between 2 nearest measurements is usually within several microns. The survey results were transformed into DB parameters.