

Software Project for Hall B 12 GeV Upgrade Status and Plans

- Overview Talk Content
- Break-out Sessions Planning

12 GeV Upgrade Software Review
Jefferson Lab
November 25-26, 2013

Hall B Overview and Progress Summary Talk

- **CLAS12 Software Overview**
- **Advances made in:**
 - **Framework**
 - **Simulations**
 - **Tracking**
 - **Calibration and Monitoring**
 - **Event Reconstruction**
 - **Data Processing**
- **Timelines and Milestones**
 - **Milestones met and current timeline**
- **Use-ability**
 - **Of framework (Data Mining Project), simulation (detector studies), and reconstruction (detector performance analysis and upcoming physics proposals)**
- **Software Profiling and Documentation**
 - **Stress Tests & Large Scale Data Challenges**
- **Steps taken to address recommendations from previous review**
- **Risk Mitigation**
- **Summary**

Hall B Break-Out Session Presentations

- **3 sessions: each ~25 (+5) minutes**
- **Details of the simulation and reconstruction**
 - **Simulation: GEMC**
 - **Reconstruction: TRAC**
 - **Data Monitoring**
 - **Data Visualization: ced**
- **Use-ability of the software**
 - **User presentations (not yet finalized – tentative speakers/slides from users)**
 - **Use of ClaRA**
 - Data Mining at ODU [G. Gavalian],
 - ClaRA cloud installations at University of Richmond [G. Gilfoyle], Chile Federico Santa Maria University (S. Mancilla), ODU, & other sites)
 - **Use of GEMC**
 - **Running TRAC for FTCal algorithm development (R. De Vita)**
- **Physics Data Processing application framework: ClaRA**