

**GRETINA Software Working Group Meeting**  
21-22 September 2012, NSCL

**Friday 21 September**

Current Status

08:30 - Introduction and goals (10 min) (I-Yang)  
08:40 - Data flow and formats (15 + 5) (Chris)

Offline Analysis

09:00 - GRETINA Root-based sort (20 + 10) (Torben)  
09:30 - BGS data sorting, calibration, and DNL implementation (20 + 10)  
(Heather)  
10:00 - GRETINA + S800 analysis (20 + 10) (Kathrin)

*10:30 - Break*

10:50 - Large data sets (15 + 5) (Raj Kettimuthu, ANL)

11:10 - Discussion: Offline data analysis

- Packages needed; long term support; needs at ANL
- Change control for bases and run parameters
- Data stream refinements

*12:30 - Lunch*

Online Analysis

01:40 - Signal decomposition background and cross-talk (40 + 10)  
(David)  
02:30 - Basis construction (10 + 5) (Mario)  
02:45 - Tracking background (20 + 10) (I-Yang)  
03:15 - Tracking implementation (10 + 5) (Torben)

*03:30 - Break*

03:50 - Discussion: Signal decomposition and tracking (David)

- Ideas for improving signal fidelity

**Saturday 22 September**

DAQ

08:30 - DAQ implementation (20 + 5) (Carl)  
08:55 - FPGA and VHDL development (15+5) (John Anderson)  
09:15 - Auxiliary detectors (15 + 5) (FMA, CHICO, particle arrays)

Simulation

09:35 - LBNL simulation (20 + 10) (Chris)  
10:05 - NSCL simulation development (10 + 5) (Antoine)

*10:20 - Break*

10:50 - Discussion: DAQ and Simulations (led by I-Yang)

- Experimental needs
- Needs for GRETA design
- Needs for auxiliary detectors
- Long term maintenance

12:10 - Plans for Software Working Group operations (20) (Mario)

*12:30 End*