

Draft of Agenda

of the Analysis Workshop at ORNL July 17 Wednesday & July 19 Friday

July 18 is off

Venue: SNS 8600 building, room AG06 (lower level under Iran Thomas Auditorium)

Two major topics:

- (A) Status of analysis of January 2024 GP-SANS data (July 17)
- (B) Preparation of nTMM experiment at GP-SANS (July 19)

A. Status of Analysis of January 2024 GP-SANS data

July 17 Agenda

- 0a. Overview of experimental GO-SANS data January 2024 (Yuri) [20]
- 0b. Analysis groups organization (Matt Frost) [20+10]
 - 1. ROI group presentation (Yuri, James, Matt) [30+30]
 - 2. McStas simulation & parameters group (Matt, James, Lisa) [20+20]
 - 3. Beam intensity & monitoring group (Yuri, Mubi, James, Cary, Carolyn) [70+30]
 - 4. “LZ”& computing resources group (Cary, David) [30+20]
 - 5. Path Forward (Matt) [15+30]

The following detailed agenda assumes short talks followed by necessary-length discussion

1. ROI group presentation (Yuri, James, Matt)

1. Source: Run # 89947. “100K” attenuator, no Cd in magnet, “beam footprint” in the detector
2. ROI in coordinates and the evidence of guide misalignment – Yuri – 10 min
3. ROI in 2 planes of tubes – Matt - 10 min
4. ROI in McStas simulations ?– James – 10?

2. McStas simulation & parameters group (Matt, James, Lisa)

1. GP-Sans Parameter List , Run List, Data Base – Matt – 10 ‘
2. Implementation of parameters in McStas – James – 10’

3. Beam intensity & monitoring group (Yuri, Mubi, James, Cary, Carolyn)

1. Stability of beam monitoring – Carolyn – 10'
2. 3 methods of intensity reconstruction – Yuri – 20'
3. Use Low-efficiency Calibration Monitor + Back Scattering from Si – Mubi – 10'
4. Use GP-SANS monitor and factor of transmission to the detector – James – 10'
5. Use detector in Run 89947 and simulate “100K” PMMA attenuation in PHITS – Cary – 10'
6. Background vs distance to the detector – Yuri – 10'

4. “LZ”& computing resources group (Cary, David ?)

1. Geometry update in evolution calculation – Cary – 10’
2. Number of velocities needed for averaging and effect of step size – Cary – 10’
3. Estimate of needed computer resources – David & Cary – 10’

Matt's Conclusion

- Reformatting the analysis groups
- Time-line and goals for further analysis
- Writing the paper (s)
- Possible dates of next workshop