

Summer School 2016

The NGB30 SANS Breakout Session

Afternoon Sessions. Total close to 4 hours

In the Classroom Intro. 1 hour 30 minutes

- “Introduction to Neutron Scattering” and “SANS Nuts and Bolts” (B. Hammouda)
- “SANS Experiment Planning and Online Info” (S. Teixeira)
- “SANS Data Analysis” (B. Hammouda)
- “NGB30 handout” (B. Hammouda)

-- Break 30 minutes

At the Instrument (C. Gagnon, S. Teixeira, M.H. Kim) 1 hour 0 minutes

- Describe the SANS instrument in detail
- Go over the three “standard” configurations
- Go over data collection for 5 % SDS in d-ethanol/d-water mixtures from 10 °C to 50 °C
- Show the various sample environments
- Distribute the Questions sheet (B. Hammouda)

In the Classroom Data Reduction (All) 1 hour 0 minutes

- Follow the reduction of SANS data for 5 % SDS in 10% d-ethanol at 10 °C
- Participants reduce themselves SANS data for the same sample at 30 °C and 50 °C
- Plot the reduced data for the various temperatures to assess the trends

Morning Sessions... Total close to 3 hours 15 minutes

In the Classroom Data Analysis I

- Go over the Questions & Answers sheet (B. Hammouda) 15 minutes
- Model fitting for the reduced data files (All) 1 hour 15 minutes

-- Break 30 minutes

In the Classroom Data Analysis II

- Go over the results described in the NGB30 handout (?) 15 minutes
- SANS Models (M.H. Kim) 30 minutes
- SDS Micelles Paper – Material Balance Equations (B. Hammouda) 15 minutes
- Finalize, Any Questions? (?) 15 minutes

To Do...

Present the Tuesday experiment
Help them prepare presentation on Thursday and Friday (All)
Presentations on Friday