

Liquid Surface X-ray Scattering User Help

Troubleshooting

- 1) IF monb and monp count rates are normal but monc rate is abnormally low, check monot position on TV for “Newport Control”—last number of the four numbers on the TV. If monot is equal to ~ -13.5 , go to MEDM panel “LIQUID SURFACE SPECTROMETER” in Sun window IDC (see graph 2.a.1), and click the “**monot**” button on the right. After ~ 1 minute, monot should go to the position marked on at the TV monitor. If monot fails to go to the designated position but at a position > -11 , then use SPEC to mv monot 0.
- 2) If monb and monp count rates are fluctuating, there are two possible reasons. One may be due to the malfunction of the intensity feedback, and the other may be due to the instability of the synchrotron beam. Turn the intensity feedback off to see if the fluctuation persists. If it does then the synchrotron beam is unstable. Call the floor coordinator to complain. Otherwise call the beamline scientists.
- 3) If monc count rate fluctuates but monp and monb are normal, check phi (third number) or chi (second number) on the TV to see if they fluctuate. If they do then move phi or chi back and forth a few times. These are servo motors so they hunt all the time and sometimes may get into a bad spot.
- 4) After a refill, turn off the feedback and go to MEDM panel “SURFACE BEAM CONTROL” in Sun window Beam Optimization (graph 2.a.3). Follow the instruction from 1-8 on that panel.
- 5) If the intensity feedback is drifting constantly, follow the instruction in 3) for beam optimization after a refill.
- 6) After a beam dump, pull out MEDM panel “Dump Recovery” in Sun Window Beam Recovery (graph 2.a.4). Follow the instruction from 1-5. Then use Beam Optimization to optimize the beam intensity.
- 7) If Surf Froze, open a new console (see graph 2.a.2) and change to your working directory, then start surf.