

Anatoli gave a summary of source development over past a few years. In the middle of run6, the polarization was found to be sensitive to the correction coil current. As the consequence, the source was operated at the edge of the peak polarization. Over last two years with other parameter tuned, it seems that the polarization remains flat over certain range of the correction coil current. Yousef questioned if it is wise to operate the source at the edge of the polarization plateau (was a peak). Anatoli thought the polarization at 200MeV polarimeter was about 83-86% in run6 and run7 and about 80-82% for run8. The intensity at the end of linac is about the same, but this year the intensity was slightly higher. He noticed a large acceptance asymmetry between left and right. Thomas pointed out that as long as the polarization of plus and minus spin states does not differ much, the acceptance effect should have little effect on polarization value, if the square root formula is used. Anatoli checked during the run a few thing which were possible to affect the polarization level but did not find any smoking gun. Anatoli listed three action items for the shut down:

1. He will choose a different supplier eliminate possible contamination of Rb.

2. A survey will be done for the 200MeV polarimeter after BLIP run finishes. He also suggested to rebuild the deuteron polarimeter and redo the calibration of the currently used 200MeV polarimeter. The argument is that since we don't know where the polarization loss in the whole accelerator chain, it is worth while to investigate if the polarization is actually 75% at the end of linac instead 80-86%. Thomas questioned why the A_N did not change between 1980s and last calibration around 2002 but changed since then. Anatoli replied that there were two sets data in 2002, one set gave lower polarization and one set gave higher. On average, the ratio was about 1.

3. He will continue to study the sona transition shield effect for next run.

Haixin then presented the injection polarization measurements at AGS injection with e880 polarimeter for various snake combinations. The data implies that polarization at AGS injection with similar partial snake strength was lower by 3-4% than run6, which is consistent with the numbers from 200MeV polarimeter measurements. The systematic error of A_N at AGS injection is about 5%, which means that the polarization could be either 75% or 85%.

Kevin is compiling a list of lattices for last run to model the AGS. He asked everyone who took part in the AGS shift to send him good (or bad) lattice sets. Ideally, these sets should have associated orbits, betatron tune and polarization measurements.

Haixin