

Christoph presented the setup plan for RHIC 100GeV polarized proton run. For the yellow ring, the plan is to copy the ramp from run6. The new working point in blue requires development of a new ramp. There is a debate on how to develop the rotator ramp. PHENIX wants both vertical and radial polarization, so the rotator ramp had better to be a separated one. The vertical tune swing will be kept either at the end of energy ramp (for vertical polarization) or at the end of rotator ramp (for radial polarization). Since the rotators are dipoles, the effects on orbit instead of tune is the key issue. Waldo suggested to dial in set values (orbit, tunes) based on past history. It is expected that the ramp can be established quicker this way. After beam survives at last stone, then we can feed forward the orbits and tune feedback can be used for further tuning. Just tune feedback itself without orbit correction is unlikely to get beam survive quickly. Haixin asked if the vertical tune on the energy ramp is too close to 9/10 snake resonance (it may split into two). Mei also questioned if one can use the store tune on the ramp. Christoph will monitor the effect on the polarization closely for this matter. This would require that polarimeter available almost on day one which remains a challenge. Hopefully, the time we spent with deuteron beam will speed up the polarimeter setup.

Waldo pointed out that the vertical bumps at injection (which are removed later) act as partial snake. So the snake current scan done at injection probably can not be directly applied to store. Since the snake setting (inner and outer currents) should not depend on lattice, there is no need to do snake current scan at injection for the new working point. In addition, both Thomas and Waldo pointed out that the scan is hard with new working point, as there is no resonance nearby. Thomas said that we should use last year's numbers. There will be no snake current scan unless there is problem with polarization.

Woody presented the AGS A15 multi-wire profiles with multi-turns and single turn for deuteron beam. The difference is quite large (implied mis-match). From the wall current monitor data, it is estimated that the d beam died in about 100 turns. It is estimated that half of the beam interacted with wires are out of aperture in one turn. This implies that 5% beam interacted with wires but survived in every turn. Thomas commented that emittance growth due to these particles may not be neglectible. Woody will fold this into mismatch calculation. As it is evident that there is a matching problem at BtA right now, Leif asked if there is any time in the history that BtA line was matched. He suggested to ask M. Blaskiewicz who might have done some BtA matching work in the past.

Haixin