

Haixin first presented the AGS pp setup plan (available at <http://www.agsrhichome.bnl.gov/AP/Spin2006/FY06AGSPolProRunPlan.htm>). We will start with 3 shifts a day in first two weeks to commission the two snake lattice. The backup solution would be ac dipole and warm snake. A field scan around $G\gamma = 45.5$ will be performed as soon as reasonable polarization is established at extraction. The run plan is posted on the web already and please make your comment.

Alfredo presented the results of dynamic spin tracking with SPINK for the AGS two snake lattice from injection to extraction ($G\gamma = 4.5$ to 46.5). With zero horizontal emittance, polarization is maintained till $36+\nu$. Mei speculates that the polarization loss there is due to higher order snake resonances. A careful vertical tune scan around $36 + \nu$ will be performed. With non-zero horizontal emittance, the polarization level gradually reduced during the acceleration, which is similar to results from simpler models reported earlier (Thomas, Mei, Fanglei). For these SPINK trackings, the main dipoles are still one piece in the lattice and a four-piece dipole tracking will follow to give precise results.

Fanglei presented the plan to study horizontal resonance effect at AGS extraction energy, which includes B field scan, horizontal polarization profile measurement. She also want to measure polarization with various beta function at cold snake, various horizontal emittance (injection mismatch). Woody suggested to generate smoke ring beam profile with G10 kicker to study the horizontal resonance effect.

Haixin