

Spin meeting minutes, 4/11/2007

Haixin showed the horizontal polarization profiles in past a few years with various lattice conditions: solenoid snake (2003), helical warm snake (2004 & 2005), 14% cold snake only (2005), 10% cold snake + 6% warm snake and 14% cold snake + 6% warm snake. For the early years with only weak partial snake, the polarization profiles are due to couplings introduced by the partial snake. As the data showed, when the coupling is smaller, the polarization profiles are flatter. In the cases of stronger cold snake, the effect of horizontal resonances is stronger with stronger snake strength. With both tunes near integer for the next run, the profile should not be an issue. Christoph commented that the plots should be made in unit of mm instead of beam σ as the underline beam profile σ is a property of beam while polarization profile is a property of lattice.

The discussion then turned to the coming AGS pp setup. Cold snake power supply will be tested today during the maintenance and ready to use. The agenda for the weekend will depend on the progress for the initial setup, namely acceleration beam to flattop. The first two items are ORM data with high tunes at extraction with a bare machine and CNI polarimeter setup. Haixin will send out email about the status and shift schedule.

Haixin