Spin meeting minutes, 8/30/2006

Fanglei presented her continued progress on SPINK tracking. The synchrotron motion part has been reverted back to the old mapping equation in the SPINK code. Namely, instead of using element by element tracking on the synchrotron motion part, the RF cavity is lumped to one element. In this situation, the simulation gives synchrotron tunes which agree with analytical solution for small phase amplitudes. She compared the two results for several energies. The agreement is better when the energy is away from γ_T. The script of reading particle orbit was also tested. There is difference between the results with orbit readout and without it. Waldo pointed out that the difference may be due to the accuracy of the read out process.

Anatoly reported that polarized proton source has been refurbished and he would like to study the relation between the polarization and the solenoid field.The study can be done with Lamb shift polarimeter, which means no linac is needed for this study. Masahiro helped Ahovi to do field calculation with OPERA, but the calculation is questionable for this low field.

Haixin