

First I would like to thank Thomas who led the meeting.

Nick Tsoupas presented the quadrupole currents needed for both tunes close to 9 with addition of polarized proton quads in the vertical string. The limit of 700A in horizontal quads would constraint the set tune to about 8.83 at top energy, and a radius shift and large horizontal chromaticity would put the horizontal tune in place. Such a function will be useful for Ioannis to test power supplies.

Fanglei presented the progress on realistic spin tracking. She did 100 particles tracking with horizontal/synchrotron motion and vertical/synchrotron motion for 15% and 10% cold snake, respectively. She also did these trackings with various acceleration rates through late part of the ramp. For the horizontal resonance tracking, she also compared with Thomas' mathcad model. They show good agreement except the beginning and end of the energy ramp. It is suspected that the spin matching or improper MAD lattice functions cause the problems. For the vertical resonance spin tracking, the case of 15% cold snake shows good spin transmission (no polarization loss) while the case of 10% cold snake shows 13% polarization loss at $36+\nu$. More trackings will be done here to see if the partial snake resonance causes the effect.

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