

Ernest compared the AGS intrinsic depolarizing resonance strengths calculated from DEPOL with and without the modification of $G\gamma$ factor. At high energies, the difference is tiny as expected, but the factor is not quite just $G\gamma/(1+G\gamma)$. For $0+\nu$, the ratio is also different from the factor (25% vs. expected 10%). Ernest is going to continue his work on the DEPOL refurbishment.

Leif compared the tune scans with various snake on/off combinations. In run4, we had tune measurements with warm snake on/off without any compensation quads. In run7, we had three sets of snake on/off data: CSNK and warm compensation quads on/off (May 17); WSNK on/off (June 19) and CSNK on/off (June 25). The tune shifts are all with the same sign, as expected, but the amount of the tune shifts for various cases are less intuitive. For example, ΔQ_y is quite different for CSNK on/off case while ΔQ_x is similar for the two cases. One may argue that the β waves are different for the two dimensions and resulted very different β functions at snakes. Woody pointed out that Alfredo's warm snake model does not have sextupole components included, which may slightly change the momentum, but the effect should be small as Leif concluded after he played with experimental data. We believe we have all power supply settings for these runs. The immediate question to ask ourselves is: can we reproduce the tune shifts by MAD model? Kevin said that the current AGS model is ready to be tested. Haixin pointed out that MAD has been applied to the case for warm snake only case (run4) and agreed with measurements. The priority order of the data analysis is set as June 25, May 17 then Jun19. The assumption is that run4 data has been analyzed and is a quick one.

Haixin