Mock – Ch1 (Intro to DM), Ch2 (LUX), Ch5 (calibrations)

Dobi – Ch1 (Intro to DM), Ch2 (LUX), Ch3 (corrections), Ch7 (tritium)

Kastens – Ch1 and 2 (Intro to DM), Ch4 (LUX), Ch5 (Kr)

Phelps – Ch1,2, and 3 (Intro to DM and LUX), 4.4 (purifiying Xe and electron lifetime),5 and 6 (Xe physics)

Outline so far: (after reading Ch1,2,3 of phelps)

Intro to DM

WIMP Detection

Dual phase Xe TPC and LUX

My work:

Sampling system

CH3T Injection system and ER band

Krypcal in Run03 (Kr injection system?)

Electron lifetime from Kr and Rn

S1 and S2 XY

estimates of field variation impact

Krypcal in Run04

Recombination phyiscs

Dealing with field effects with CH3T

Dealing with field effects using S1a/S1b

Dealing with field effects assuming time independent S1 correction

Energy reconstruction

Run03 Doke plot

Run04 Doke plot with “gold mine” of smearing