Primary Tasks

Josh

1.) Microwave stepper setup, reliability/repeatability

2.) Microwave frequency calibration and reliability tests

3.) NMR (UVA system) and Microwave PS long cable length setup and tests

4.) Know all details of controlling VI, simulations and automation

5.) CPI power supply communication and remote controls VI and testing

6.) All microwave cabling and safety interlock setup and write-ups for FNAL electrical walk through

7.) Nitrogen Shield vessel Engineering Note

Zulkaida

1.) 1-D bar as Seppo suggested for better thermal simulation

2.) Completion of Quench simulations and write up

3.) VI (Must be LabView) for vacuum pressure (more important) and turbo controller (less imporant)

4.) Full analysis software for Sivers function extraction

5.) Testing magnet simulations and false asymmetries with cup/ladder/target variations

6.) Setup warning system and slow control variables to monitor for the magnet and vacuum

7.) Configuring all magnet and vacuum cabling and monitoring to cryo-platform

Carlos

1.) Finalize sensors and readouts for fridge and magnet (specifically outside magnet)

2.) Actuator controls and limit switches and positioning

3.) Design and submit material loading tub

4.) Leak check risers and vacuum space (or start whatever admin process we need to)

5.) Configuring all fridge and cryo cabling and monitoring to cryo-platform

Anchit

1.) Make NH3 and ND3 try to optimize procedure

2.) Calculate what the heat load from the microwave and the beam is on the beads

3.) Design and perform density (thermal contraction) measurement

4.) Make cryostat tops for making material and small sample polarizing with small SC magnet

Arthur

1.) Reproduce the COMPASS dynamic dilution factor using MCFM

2.) Produce the SpinQuest dynamic dilution factor using MCFM considering all materials

3.) Study variation of dilution factor experiment Q^2, q_T and X_b

Liliet

1.) Analysis