Helium charged to users between 16 and 20 Liq.L/shift

Magnetic field decay rate better than 1 ppm/Hr

Best NMR at (3mm E, 0, 0) agree with field map at center

Field map vs. z shows best homogeneity is about 2.5 mm below geometric center, mount magnet 2.5 mm above beam for best possible beam injection.

From field map Beam pipe flange 0.7 Deg. Twist, offset east by 1 mm. Sample should be south of geometric center by 3 mm.

Magnetic Shims are two strips of Magnetic Shield Corp. Netic S3-6 alloy (part NS030-30-15) each is 0.95 inch wide and 1.76 inch long and are 2 inch apart. They are aligned in the lower west quadrant 35 deg from the horizontal. They are used to pull the field down and west.

Best NMR signal with 5.5 T shims

Field (T) - west/+east -down +Out cryostat direction

3.5 -1.3 0 0

4 -0.5 -2 2.9

4.5 -0.2 -2 2.9

5 0.5 -1.6 2.8

5.5 1.1 -1.6 2.8

6 1.4 -1.6 2.8

Best position at one field vs optimal position for all fields (0.75 mm E, -3mm low) geometric center is 2mm above beam. (magnetic field map)

1. Center prompt counts UD @ 5T
2. Center prompt counts RL @ 3T

XY table destroys NMR but not Ag relaxation.