



Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

Below are the results from the Hall A moller magnetic field probe survey. A +X is to the beam left, a +Z is downstream, and a +Y is up. Values are in millimeters. The upstream and downstream discs which supported the probe were each measured at four locations rotated 90 degrees apart as labeled on the discs. Two sets of coordinates are shown. The first set is relative to the field probe, which is where the magnet will be placed in the beam line. The second is relative to the magnet center to show the movements made on the probe when placed on the magnetic center. Both sets of data are centered on the magnet flanges along beam (in the Z direction).

RELATIVE TO MAGNET PROBE

LOCATION	Z	X	Y
US PROBE 0	-211.44	0.15	0.00
US PROBE 90	-211.44	-0.06	0.11
US PROBE 180	-211.44	-0.13	-0.04
US PROBE 270	-211.44	0.05	-0.07
DS PROBE 0	214.90	0.09	-0.03
DS PROBE 90	214.90	0.11	0.05
DS PROBE 180	214.90	-0.13	0.10
DS PROBE 270	214.90	-0.07	-0.13
US PROBE AVG	-211.44	0.00	0.00
DS PROBE AVG	214.90	0.00	0.00
US MAGNET FLANGE	-140.46	0.44	-0.23
DS MAGNET FLANGE	140.45	-0.41	-0.85
BEAM LEFT MAGNET SLOT	0.38	160.56	-0.59

RELATIVE TO MAGNET CENTER

LOCATION	Z	X	Y
US PROBE 0	-211.44	-0.51	0.07
US PROBE 90	-211.44	-0.72	0.18
US PROBE 180	-211.44	-0.79	0.04
US PROBE 270	-211.44	-0.61	0.00
DS PROBE 0	214.90	0.72	0.99
DS PROBE 90	214.90	0.74	1.07
DS PROBE 180	214.90	0.51	1.12
DS PROBE 270	214.90	0.56	0.89
US PROBE AVG	-211.44	-0.66	0.07
DS PROBE AVG	214.90	0.63	1.02
US MAGNET FLANGE	-140.46	0.00	0.00
DS MAGNET FLANGE	140.46	0.00	0.00
BEAM LEFT MAGNET SLOT	-0.11	160.54	-0.05