



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** J. Smith, M. Wiseman, J. Takacs, S. Mano

**DATE:** 15 Nov 2007

**FROM:** Kelly Tremblay

**Checked:** CJC

**# :** U1143

**DETAILS:**

data: documents\acad\kt\r2\_bcom & Dwg 22161-E-1602 & magnets.dat

Below please find the ideal coordinates for the referenced beamline components. Also attached is a sketch of the BCOM magnet, MAW2R06 (originally created in 1993) which examines the path and clearances the 4 beam lines make relative to the magnet's poleface. Note that this drawing was to assist in obtaining the "best fit" of the 4 beam paths relative to the location of the magnet's poleface, and thereby it's placement in the accelerator.

Component	S	Z	X	Y	Yaw	Pitch	Roll	Location
AW2R06	1303.502	-161.22507	80.60000	100.09454	0.00000	10.80108	0.00000	Entrance
AW2R06	1304.508	-160.22507	80.60000	100.00000	0.00000	0.00000	0.00000	Exit
AW4R06	2615.023	-161.22508	80.60000	100.04824	0.00000	5.52402	0.00000	Entrance
AW4R06	2616.025	-160.22508	80.60000	100.00000	0.00000	0.00000	0.00000	Exit
AW6R06	3926.140	-161.22508	80.60000	100.03242	0.00000	3.71342	0.00000	Entrance
AW6R06	3927.141	-160.22508	80.60000	100.00000	0.00000	0.00000	0.00000	Exit
AW8R06	5237.057	-161.22508	80.60000	100.02441	0.00000	2.79709	0.00000	Entrance
AW8R06	5238.057	-160.22508	80.60000	100.00000	0.00000	0.00000	0.00000	Exit
QB1L00	-7.436	-159.65008	80.60000	100.00000	0.00000	0.00000	0.00000	Center
QB1L01	-5.586	-157.80008	80.60000	100.00000	0.00000	0.00000	0.00000	Center
BD1L01	-5.125	-157.33929	80.60000	100.00000	0.00000	0.00000	0.00000	Center
BD1L02	-4.125	-156.33929	80.60000	100.00000	0.00000	0.00000	0.00000	Center
BK1L01	-3.875	-156.08928	80.60000	100.00000	0.00000	0.00000	0.00000	Center
BK1L02	-3.625	-155.83929	80.60000	100.00000	0.00000	0.00000	0.00000	Center
QD1L02	0.000	-152.21452	80.60000	100.00000	0.00000	0.00000	0.00000	Center

# MAGNET AW, 2nd BCQM IN North West Recombiner

## CALC OF THE LOCATION FOR ALIGNMENT PURPOSES

K. Tremblay 19 October 93

