

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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Checked:

#: 693

DETAILS:

Below are the results of the survey performed on the Hall B beam line components during the recent down. The as set values are in a right-handed coordinate system with + X to the beam left, and + Y above ideal beam centerline. The Z value for the primeX flange is a distance between the downstream tagger flange and the upstream vacuum chamber flange. The Z value for the target is an offset from ideal distance to CLAS centerline. The pair spectrometer offsets are to the center of targets installed on four individual "paddles" by Hall B staff. The angular values for the fiber array and crystal are relative to a line from the primeX center projected along beam.

Element	X	Y	Z	Angle (deg.)
PrimeX magnet	+0.1	0.0		
PrimeX target ladder flange	+0.7	-0.1	735.0	
Fiber array upstream		-0.1		6.5702°
downstream		-0.6		6.5481°
PrimeX crystal (beam left limit)				9.6640°
(bean right limit)				2.8607°
Pair spectrometer F4	171.06			
F13	-167.46			
B4	229.88			
B13	-223.58			
G8 target	+0.19	0.0	-0.1	
Harp upst of primeX	-0.2	+0.7		
Collimator dnst of primeX	0.0	+0.1		