Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

Data: m:\align\data\step2b\bsy\bsy9c\070921a\bsy9c

The components downstream of the line C Moller target were surveyed September 21st 2007. The table below shows the ideal coordinates in the Alignment group's database based on outputs from either Dimad or Optim. Also shown are the as-found/set locations for the components. The BFS deltas refer to the component's location relative to the ideal in the direction along the beam. The BFS coordinates are in millimeters. A +z would be too far downstream, +x to the beam left looking downstream and a +y is above the design location. The Angular Deltas are in degrees and are based on a right handed coordinate system and are again the difference from design. The ideal yaw is 142.48324°, with the ideal pitch and roll being 0.0°.

Item	Ideal (dimad/optim)			BFS deltas (mm)			Angular Deltas (degrees)		
	Z(m)	X(m)	Y(m)	z(mm)	x(mm)	y(mm)	yaw	pitch	roll
Moller	-356.7662	-100.4152	99.9780	-0.3	0.3	-2.7	-0.085	0.026	0.042
MQF3M01	-357.4405	-100.9329	99.9780	154.0	0.0	0.0	0.024	0.112	-0.118
CO3M01	-358.1103	-101.4471	99.9780	520.1	-0.4	0.0	-0.045	-0.063	0.017
MQE3M02	-359.2451	-102.3185	99.9780	0.3	0.1	0.2	0.010	-0.003	-0.021

Note that per Dave Gaskel's instructions the Moller is set approximately 3 mm low and 0.5 mm beam left intentionally to allow for cool down.