Jefferson Lab Alignment Group

Data Transmittal

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DETAILS: Data: 2B\BSY\BSY10A\110125A

Below are the results from the survey carried out on the moller target assembly. The outside flanges were set on ideal beam center horizontally. Vertically, they were set as low as the adjustment cartridges would allow leaving the target chamber high approximately 4 millimeters. The angular dimension required on the foil targets where they wrap around the target holder could not be reached. Therefore, the center slot on the target holder was measured. This, along with relative dimensions on the target drawing should provide information to generate the pitch angle of the target foil. The Values below are based on ideal beam center with a +X to the beam left and +Y above.

TARGET CHAMBER

X: +0.07
Y: +3.77
Pitch: 0.099 deg. counter clockwise looking from the beam right side.
Roll: 0.006 deg. ccw looking from upstream.
Yaw: 0.162 deg. ccw looking from above.

TARGET HOLDER RECTANGULAR SLOT AT BEAM RIGHT SIDE

X: -505.90
Y: +1.22
Pitch: 24.11 deg. ccw looking from beam right side.
Length: 68.66
Width: 10.19