



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 02/18/2019

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Checked: rtm

: B1908

DETAILS:

data: step2b\hallb\svt\190129a

The Hall band box detector was surveyed on January 29th, 2019. The survey occurred the same time the SVT and Hall B target were positioned (see report B1901). The table below shows the band box detector's four corner coordinates relative to the Hall B ideal target.

The four corners of the opening of the band box detector were projected to the upstream face of the band box's PMT tubes. The corners were established by measuring the top and bottom surface of the PMT tubes and for the sides, the face of the PMT cylindrical points were used.

The data shows the as-found position as it follows the beam relative to the ideal target. The values for the coordinates are: a positive x value is to the beam left looking downstream along beam; a positive y is higher vertically from ideal beam; a negative z is upstream from the target along ideal beam.

Band Box Corners in Hall B coordinate system			
Point	X[mm]	Y[mm]	Z[mm]
Beam Right bottom	-240.5	-211.0	-3026.9
Beam Right top	-240.5	228.1	-3026.9
Beam Left bottom	241.0	-210.6	-3025.7
Beam Left top	243.7	228.1	-3026.4