

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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Checked: # : A711

DETAILS:

The encoder ring for the Hall A spectrometers, was surveyed on October 15, 2001. Five foil targets were placed on the outer edge of the ring and surveyed using the Hall A survey control points. The five targets were placed on the beam left side from approximately $+77^\circ$ to $+168^\circ$ azimuth from the beamline (right hand rule, following along beam is 0° azimuth). A circle fit was then used to determine the center and radius of the encoder ring.

Relative to Hall's coordinate system (origin, hall center, positive z along beam, right handed system) the coordinates of the encoder center are :

Z = -0.25 mm X = -0.24 mm

The radius was determined to be 1.007 meters.