

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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Checked: # : A799

DETAILS:

The results for the Happex detector in line A are based upon a coordinate system which has its origin as the center of the Moeller magnet, its positive Z axis in the direction from this origin towards the Hall A target, X axis perpendicular to the Z axis and in the beam left direction and the Y axis in vertical direction. All units are millimeters and decimal degrees.

The resulting angles and coordinates are as follows:

The top upstream edge of the Happex intersect the ZY plane at :

$$x = 0.0 \quad y = -165.1 \quad z = 1465.6$$

The corner intersection of the top, upstream and beam left of the Happex is :

$$X = -79.4 \quad y = -179.3 \quad z = 1553.6$$

The yaw angle of the Happex at this corner is -42.071° , pitch angle is 6.847° and roll angle is -6.179° .