Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

Data: Aalign\Hadron\2009\H042309a

Below are the results from the April 2009 survey performed on the Hall A Big Bite Hadron detectors. Values for the detectors are centered horizontally on the frame, and vertically centered at the midpoint between the upper and lower detectors. Along beam direction, the detectors are centered between the upstream and downstream face of the detectors.

Relative to the Hall A coordinate system with the origin at the target center, and using the straight ahead beam as the principle axis, the equipment is located at:

Element	z (mm)	x (mm)	y (mm)	yaw (deg)	pitch (deg)	roll (deg)
Upstream Detector	739.5	-2492.1	370.7	74.125	25.522	0.119
Downstream Detector	982.9	-3348.1	734.2	74.345	25.510	0.024

Note: The yaw angle is the angle that the individual piece of equipment's centerline lies at in the coordinate system.