Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

Below are the results from the April 5th 2005 survey performed on the Hall A Big Bite neutron detector and the downstream proton detector. Values for the detectors are centered horizontally on the frame, and vertically centered at the mid point 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)
Downstream Photon Detector	-474.9	-2984.9	736.2	-99.189	25.314	0.060
Neutron Detector	-966.5	-6100.0	-5.25	-99.187	-0.300	0.034

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