Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

Attached is a spreadsheet containing inspection points measured on the Hall B DVCS calorimeter. A right handed coordinate system was established with +X to the beam left, +Z downstream, and +Y up. The ideal locations for the 6.35 mm holes (A through G), were held fixed in X and Y. As seen on the spreadsheet, the ideal Z locations for the holes did not match the measured and therefore were all floated except point B. This prevented the Z locations from influencing the pitch and yaw of the system. Points H and I were not easily seen and therefore were not used. Tooling balls, however, could be measured in these two locations for fiducial points during alignment. All points measured on the detector are directly on the surface of the framework or insulation as listed in the spreadsheet. Each layer of crystals were labeled 1 through 16 from the top.

For record purposes, the spreadsheet is located in the following directory.
M:\align\DATA\fiducial\HallB\DVCS\041215A