Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

Below are the direction cosines of three proton array detectors and their projections onto the central Z axis of the DVCS. A negative Z is upstream. Values are in millimeters and decimal degrees. Note that the Z axis of the DVCS, defined by the side plane of the 5th column, 5th row crystal, is 15.07mm to the beam left of the detector assembly.

Description

Detector 1 **I** = 0.40716 **J** = -0.67250 **K** = -0.61803 **Projected Z =** -1090.26

Detector 2 **I** = 0.23694 **J** = -0.74972 **K** = -0.61789 **Projected Z =** -1095.56

Detector 3 **I** = 0.06042 **J** = -0.78474 **K** = -0.61688 **Projected Z =** -1102.34

Upstream Flange **X** = -15.90 **Y** = -1.39