Jefferson Lab Alignment Group
Data Transmittal

TO: Pierre Bertin		**DATE:** Sep 14 2004
FROM: Chris Gould	**Checked:**	**# :** A948

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   **Projected Z =** -1090.26
                J = -0.67250
                K = -0.61803

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

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

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