Attached is a spreadsheet listing the upstream face coordinates of each of the crystals in the Hall A DVCS crystal array. A right handed coordinate system was established with the X and Y origin centered on the average horizontal and vertical position of all crystals and then shifted to the beam left so that the 5th and 6th stack from the left side are centered horizontally on beam as per drawing # A-01-14-0900. The Z origin is centered on an average of 39 randomly selected points on the upstream face of the crystal array. These points are also listed in the attached spreadsheet. A +X is to the beam left, a +Z is downstream, and +Y is up. Note that there are 2 crystals which had poor circle fits; this is possibly due to bad probe tip registration where the stem was up against the edge rather than the tip. These points are highlighted in bold face.

Spreadsheet: [DVCS](#)