Definition of the U-V-Z coordinate system in MOFIA

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Date: 21 Nov 2001

The U-V-Z coordinates used in MOFIA are derived from the X-Y-Z coordinates like this: the X axis becomes the U axis and the Y axis becomes the V axis after a rotation around the Z axis by +45 degrees.

The X-Y-Z coordinates are defined in the usual way- the Z axis is oriented along the beam line, in the beam direction, the Y axis points up and the X axis completes a right-handed coordinate system.

The (positive) +45 degree rotation is defined by a right-handed screw: a positive (clock-wise) rotation will drive a right-handed screw into the wall.

This figure shows the relationship between all the 5 axes:

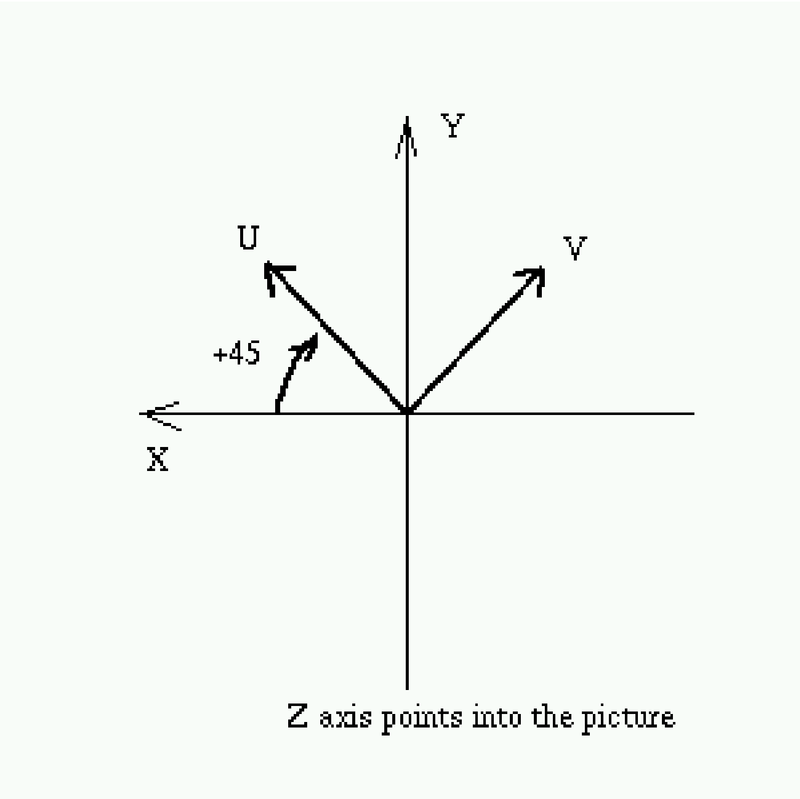

Figure 1. Relationship between the X-Y and U-V axes