

A PCA plot showing the relationship between PC1 (x-axis) and PC2 (y-axis). The x-axis ranges from -4 to 4, and the y-axis ranges from -4 to 4. Two diagonal lines, $PC2 = PC1$ and $PC2 = -PC1$, divide the plot into four quadrants. The plot is labeled with red text: "Jet Retraction" in the top-left quadrant, "Jet Extension" in the top-right quadrant, "Equatorward Shift" in the bottom-left quadrant, and "Poleward Shift" in the bottom-right quadrant. The data points are represented by blue circles and diamonds, forming a complex, interconnected trajectory that loops through the quadrants. A green dot is located near the origin, and a red diamond is located in the bottom-right quadrant.

