

Scatter plot showing the first two principal components (PC1 vs PC2) for the four groups (g, r, i, z). The plot displays four distinct clusters of points, with 'g' (purple) at the top left, 'r' (blue) at the bottom left, 'i' (green) at the bottom right, and 'z' (orange) at the top right. A legend in the top right corner identifies the groups.

