

A scatter plot showing the distribution of 1000 simulated data points across three redshift bins. The x-axis represents redshift, with major ticks at 56400, 56600, 56800, 57000, 57200, and 57400. The y-axis represents a simulated magnitude, ranging from 14 to 26. The data points are colored according to their group: 'g' (purple), 'r' (blue), 'i' (green), and 'z' (orange). The plot shows a clear separation of the groups into three distinct redshift bins, with the 'z' group (orange) generally having the highest redshift and the 'g' group (purple) having the lowest. The 'r' (blue) and 'i' (green) groups are intermediate in redshift. The distribution of points is roughly uniform across the magnitude range within each bin.

