

The figure is a scatter plot showing the time evolution of the color index $g-r$ for a sample of 1000 galaxies. The x-axis represents time in Modified Julian Days (MJD), ranging from 56300 to 57400. The y-axis represents the color index $g-r$, ranging from 0.0 to 2.5. The data points are colored according to their redshift: g (purple), r (blue), i (green), and z (orange). The plot shows a dense distribution of points, with some outliers at higher $g-r$ values. The color index generally increases with time, particularly for the z and i bands.

